

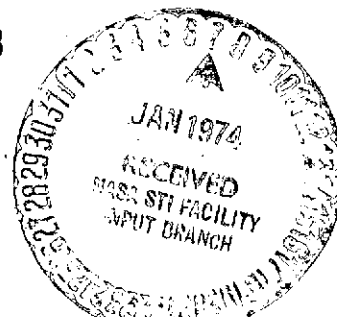
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SPACE RADIATION INCIDENT ON SATS MISSIONS

E. G. STASSINOPOULOS

NOVEMBER 1973



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National Space Science Data Center

November 1973

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Greenbelt, MD

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Foreword

At the request of the SATS project office, a special orbital radiation study was conducted, in order to evaluate mission encountered energetic particle fluxes. This information is to be supplied to the project subsystem engineers for their guidance in designing flight hardware to withstand the expected radiation levels. Flux calculations were performed for a set of 20 nominal trajectories placed at several altitudes and inclinations.

Temporal variations in the ambient electron environment were considered and partially accounted for. Magnetic field calculations were performed with a current field model, extrapolated to the tentative SATS launch epoch with linear time terms. Orbital flux integrations were performed with the latest proton and electron environment models, using new and improved computational methods. The results are presented in graphical and tabular form; they are analyzed, explained, and discussed. Finally, estimates of energetic solar proton fluxes are given for a one year mission at selected integral energies ranging from 10 to 100 Mev, calculated for a year of maximum solar activity during the next solar cycle.

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Introduction

The objective of the present study is to determine the charged particle fluxes to be encountered by spacecrafts in circular, low altitude orbits, and to evaluate the inclination dependence of the expected flux levels.

For this purpose, five altitudes and four inclinations were selected for investigation:

$$h = 200, 400, 600, 800, 1000 \text{ km}$$

$$i = 0^\circ, 30^\circ, 60^\circ, 90^\circ$$

and nominal trajectories were generated for all combinations of these parameters.

Circular flightpaths with small inclinations ($i < 45^\circ$) and low altitudes ($h < 1000 \text{ km}$) lie almost entirely within the region of magnetic dipole space called the "inner zone" ($1.0 < L < 2.8$), in contrast to high inclination ($i > 55^\circ$) flightpaths at any altitude, which traverse the entire terrestrial radiation belt twice during each revolution, moving back and forth through regions of low L values (i.e. the inner zone) and regions of high L values (i.e. the outer zone: $2.8 < L < 12.5$) respectively.

* The upper boundary of the "outer zone" in the new electron model AE4 has been placed at about $L \approx 12$ e.r., as against $L \approx 6.5$ e.r. in the older model AE2.

This grouping of trajectories according to L ranges or zones is important in the study because each zone requires special treatment. Thus, with regards to the inner zone, which is visited by all investigated orbits for varying intervals of time, special considerations are necessary on account of the substantial "Starfish" ** residuals (Teague and Stassinopoulos, 1972) that still populated this region in 1967, the epoch of the corresponding environmental model.

The outer zone, while it is visited by high inclination orbits only, also warrants special consideration because there trajectories pass through regions of space within the magnetosphere, that are accessible to subrelativistic cosmic ray fluxes of solar origin. A detailed discussion of this matter is given in a subsequent section on "Energetic Solar Proton Fluxes."

Orbital flux integrations were performed with UNIFLUX, a "United Orbital Flux Integration and Analysis System" by Stassinopoulos and Gregory (1972).

Two new environmental models were used in SATS calculations: the AE5 by Teague and Vette (1972) for the inner zone electrons, and the AE4 by Singley and Vette (1971) for the outer zone electrons. Some observations on both models are in order.

Both are static models describing the environment as it existed back in

** "Starfish" is the high altitude nuclear explosion over Johnston Island in the Pacific in July 1962, which injected about 10^{29} energetic artificial electrons into the inner zone region of the Van Allen belts.

October 1967, at about solar maximum conditions. In constructing these models, it was possible to infer a change of the average quiet-time electron flux levels as a function of the solar cycle. However, a complete temporal description of the solar cycle dependence is not available at this time. Additional static versions of the AE5 - AE4 models for the 1964 solar minimum epoch have just been released and will be incorporated into the UNIFLUX system for future applications.

As for the SATS missions, the present calculations were appropriately performed with the current solar max versions of the electron models because the tentative launch dates (1977 - 1979) fall into the next period of increased solar activity.

It should be noted that the residual artificial components, contained in the solar max AE5 model of epoch 1967, were still significantly predominant at some L values and for some energies. Therefore, it was necessary to update the model and to remove the remaining artificials with the aid of our exponential decay function, using the appropriate cut off times and lifetimes. These were available as functions of energy and L in terms of approximate dates at which the Starfish fluxes had decayed down to natural background levels (Teague and Stassinopoulos, 1972) and apparent decay lifetimes for the artificials (Stassinopoulos and Verzariu, 1971).

In contrast to the electrons, no special considerations are required for the proton results, obtained from standard models long in use. Although they also

describe a static environment, this is a valid representation for these particles because experimental measurements have shown that no significant changes with time have occurred in the proton population. With the exception of the fringe areas of the proton belt, that is, at very low altitudes and at the outer edges of the trapping region, the possible error introduced by the static approximation lies well within the uncertainty factor attached to the models. Consequently, the proton data may be applied to any epoch without the need for an updating process.

We wish to emphasize that our calculations are only approximations although they are based on the best available data; as always, we strongly recommend that all persons receiving parts of this report be advised about the uncertainty in the data, as discussed in Appendix A.

Appendix A also contains pertinent information in units, field models, trajectory generation and conversion, etc.

Finally, an explanation regarding the attribute "standard" frequently used in the reformatted OFI (Orbital Flux Integration) Study Reports. The term is applied as a modifier to parameters, constants, or variables in order to indicate or refer to some specific value of these quantities that has been used without change over extended periods of time. Although override possibilities do exist in the OFI system, a routinely submitted production run will, by default option, always use these "standard" values. The term is also used in reference to established forms, style, processes or procedures, as for example, "standard

tables", "standard plots", "standard production runs", etc. A list of some quantities, values, or expressions modified by "standard" is given in Table 1.

Results: Analysis and Discussion

The outcome of our calculations is summarized in Tables 3 to 233, which are all computer produced. The tables are arranged in four sets, where every set pertains to one specific type of table: the first set contains the "L-band" tables, the second the "Spectral Distribution and Exposure Index" tables, the third the table of "peaks", and the fourth the "Exposure Analysis" summary and the "Time Account" breakdown. All sets except the last contain three similar members: one for low energy protons, one for high energy protons, and one for electrons, in that order. The last contains only one member. Further explanations on the tables and a more detailed description of their contents is given in Appendix B. Figure 1 is a guide to table arrangement, as produced by a standard production run of the Orbital Flux Integration (OFI) program UNIFLUX for a single trajectory.

Some of the tabulated data is also computer plotted in Figures 3 to 173, with additional Figures 174 to 213 containing plots of flightpath data. The manually produced Figures 214 to 217 contain information as to the altitude and the inclination dependence of the orbit integrated fluxes. Finally, Figures 218 to 220 show individual and mean flightpath exposure to energetic solar protons, and give the annual solar proton fluence for all exposed trajectories considered in this study. As with the tables, the computer plots are arranged in four sets, where each set pertains to one specific type of plot: the first set contains "Time and Flux Histograms", the second "Spectral Profiles",

the third "Peaks per Orbit", and the fourth trajectory "World Map Projections" and "B - L Space Tracings". Again, all sets except the last contain three similar members: one for each type of particle considered. The last set contains only the two independent members mentioned above. Appendix C describes and explains the plots. Figure 2 is a guide to plot arrangement, as produced by a standard production run. The final plots, (Figures 214 to 217 and 218 to 220) are explained in the sections "Altitude and Inclination Dependence" and "Energetic Solar Proton Fluxes", respectively.

I. Spectral Profiles

For tabulated data consult Tables 60 - 116.

For plotted data consult Figures 60 - 116.

The integral spectra presented in this report are orbit integrated, statistically averaged, trapped particle spectra, characteristic of the specific trajectories that produced them.

Noteworthy are the electron spectra obtained from the new environment models AE5 and AE4, especially in regards to the steep fall-off to zero flux in the energy range of 4 to 5 Mev. The apparent cutoff at these energies is probably due to the complete decay of the high energy Starfish artificials by 1967, assuming no significant numbers of naturals exist with energies greater than 4 - 5 Mev.

With regards to the protons, it is advisable to ignore the extrapolation of the high energy model (AP 6) from 4 Mev down to 3 Mev. These values may be too much in error and should best be replaced with the corresponding fluxes from the low energy model (AP5).

It should be noted that no trapped particle fluxes of any species are encountered by the 200 km altitude equatorial trajectory. This happens because the orbit lies completely outside the trapping regions, as these regions are defined in the environment models.

II. Peaks Per Orbit

Tabulated data is contained in Tables 117 - 173.

Plotted data is shown in Figures 117 - 173.

The absolute peaks presented in this report have been obtained for standard OFI (Orbital Flux Integration) energies; that is: $E \approx .1$ Mev for low energy protons, $E > 5$. Mev for high energy protons, and $E > .5$ Mev for electrons, from a standard production run.*

If the peak fluxes, shown in Figures 117 to 173 for one day only, were calculated and plotted for several days, the respective contours would follow a periodic pattern that is based on the daily cycle of revolutions. Allowing for small variations due to possible fractional precessions per day, this pattern would repeat itself indefinitely since the investigated trajectories are circular and no major changes with time are expected; this means, of course, that the orbits are assumed stable, experiencing no external perturbations or atmospheric drag effects.

For a given circular trajectory at a fixed inclination and altitude, the peak-contour may display small or large amplitude variations or discontinuities.

However, since peaks are a function of altitude and inclination, these features may be strongly modified with a change in either or both. Thus,

* In a standard production run, the integration is performed for a 24-hour flight duration and with a constant 1-minute stepsize.

the relative difference between the P_{\max} and the P_{\min} values of a curve, as well as the magnitude of the individual peaks, may vary significantly (several orders of magnitude) when i or h are changed.

Apparently, an increase in height has a dampening effect on the peak-curves: the amplitudes shrink, and the extrema approach each other; it also produces a relative rise in the magnitude of the encountered peaks.

The peak contours of certain orbits display a sharp drop to zero flux levels. As far as can be determined, these "flux free" intervals are valid. Apparently they arise because those particular orbits miss, during the revolutions in question, the trapping regions of the respective particle species. Table 234 gives the number of flux-free orbits per species for all combinations of inclination and altitude.

III. Trajectory Data

See Figures 174 - 193 for World Map projections.

See Figures 194 - 213 for B-L Space Tracings.

A. World Maps

World map projections of trajectories are by definition the surface traces of their subsatellite points.

The apparent westward drift of successive orbit tracings is the "longitudinal precession" of the trajectory, resulting from the rotation of the geoid in reference to the orbit plane.

Under unperturbed dynamic conditions, the respective orbit period determines the nodal precession of the trajectory. For circular flight paths the period, and hence the precession, is a simple function of the geocentric distance. At the altitude levels proposed for the SATS missions, the period ranges from 1.475 to 1.752 hours with corresponding precessions ranging from 22.2 to 26.3 degrees approximately. This amounts to about 13 to 16 orbits for a twenty four hour flight-time duration.

Although a general 24 - hour flight duration was considered in the study, for reasons of clarity, the world map projections of the trajectories are plotted for ten revolutions only. The orbit numbers appear at the starting points of each revolution.

B. Magnetic Dipole Mapping

At large geocentric distances ($r_e > 6$), the quantities B and L have no physical meaning any more because of the interaction between solar wind and magnetosphere.

The noon-midnight distortion of the magnetosphere, produced by that interaction (compression in the solar and elongation in the antisolar directions), causes a breakdown in the symmetry of the dipole magnetic shell parameter L and introduces significant external currents and fields, whose contributions substantially alter the apparent field strength B that is presently being obtained for a given position from the dipole terms of the internal field model applied in the calculations.

Therefore, in this study (as well as in every model of charged-particle radiation utilized), these variables are being employed only as ordering parameters.

The magnetic B - L space tracings of the high inclination trajectories ($i = 60^\circ, 90^\circ$) appear as long horizontal line segments on the plots (Figures 196-7, 200-1, 204-5, 208-9, 212-3), strikingly displaying the transverse motion of the satellite in that space-frame.

The tracings of the equatorial orbits reflect the variations in B and L that occur along the respective flightpaths. The variations result from the tilt of the magnetic dipole axis to the axis of rotation. Positions on

the geographic equator appear therefore displaced from the geomagnetic equator (Figures 194, 198, 202, 206, 210), except at two points (the nodes of the planar intersects) where the plotted curves touch the equatorial contour.

Incidentally, all inclined orbits cross, of course, the magnetic equator twice per period; however, the nodes (and hence the point where the curves are tangent to the equatorial contour) are shifted due to the rotation of the geoid. This displacement in B - L space is analogous to the precession in polar space.

Again, for reasons of clarity, only three orbits are plotted per graph; here also the orbit numbers appear at the starting points of each revolution.

Altitude and Inclination Dependence

The altitude and inclination dependence of the electron and proton fluxes predicted for SATS in the h & i domain of interest, is shown in Figures 214 - 215 and 216 - 217, respectively.

The average orbit integrated daily fluence of the investigated circular trajectories is depicted in Figures 214 (electrons) and 215 (protons) as a function of altitude, in terms of constant inclination.

The rapid rise of the $i = 0^\circ$ and $i = 30^\circ$ electron contours, by several orders of magnitude, is characteristic of the low inclination-low altitude trapping environment visited by the corresponding trajectories. The higher inclinations ($i = 60^\circ$, 90°) display a much weaker altitude dependence but experience very high flux levels even at $h = 200$ km.

The proton contours display similar trends, but the higher inclinations show a greater altitude dependence than in the case of the electrons, and the $i = 30^\circ$ curve indicated that for the particular energy threshold considered the high intensity trapping region extends to lower altitudes.

The same data is presented in Figures 216 (electrons) and 217 (protons) as a function of inclination in term of constant altitude. The electron curves indicate almost no variation in the fluxes for inclinations greater than 30° to 35° while the protons show a small decline in fluxes for those inclinations.

Energetic Solar Proton Fluxes

Good measurements of solar cycle 20 interplanetary cosmic ray fluxes at about 1 A.U. are now available. These interplanetary particles are also observed over the high latitude polar cap regions. However, at other latitudes the geomagnetic field effectively shields the earth from some of these cosmic rays by deflecting the lower energy particles while only particles with increasingly higher energy penetrate to lower latitudes.

In order to consider the effect of geomagnetic shielding from cosmic rays on an orbiting spacecraft, the total time spent by the vehicle in regions of space accessible to these particles has to be calculated, as a function of particle energy, for the entire lifetime of the satellite. In other words, the exposure of a spacecraft to these particles is in essence a function of trajectory altitude and inclination, and mission duration. Of course, this applies only to the years of increased solar activity, and whether a satellite will "see" energetic solar protons or not, even in accessible regions of the magnetosphere, depends on the epoch within the solar cycle, at which the mission is to be flown. If it coincides with the period of low solar activity (years of solar minimum), it most likely will not encounter any significant number of energetic solar protons, and vice versa.

Having calculated a mission exposure time for a specific trajectory, one can use experimentally determined low energy cosmic ray fluxes of solar origin from which the galactic background has been subtracted, to obtain vehicle-encountered energetic solar proton intensities. In the present study, the annual mean of event and cycle integrated proton fluxes of cycle 20, given by Stassinopoulos and King (1973) for energies ranging from $E > 10$ Mev to $E > 100$ Mev, were used to estimate cycle 21 intensities for the SATS missions.

However, no thorough statistical treatment has yet been worked out in regards to the probability of actual cycle 21 fluxes exceeding the predicted intensities. Crude model confidence levels only are available at this time. The importance of such statistics must be emphasized; it is best demonstrated by the occurrence of the August 4 - 7, 1972 event, which was the largest recorded in solar cycles 19 and 20, its fluxes exceeding the accumulative total of all other cycle 20 events by about a factor of 2 for the $E > 10$ Mev protons and by a factor of 4 for the $E > 30$ and $E > 60$ Mev particles. Therefore, caution is advisable when using the data presented in this report. The probability that the estimated fluxes for the SATS missions will be exceeded by an actual event is about 33% for a one-year mission duration.

Figure 218 shows, for all trajectories considered in this study, the percent of total mission time during which SATS will be exposed to energetic solar protons. The data indicate that the low inclination orbits ($i = 0^\circ, 30^\circ$) in the altitude range of interest, are completely shielded from these particles by the magnetosphere: the exposure is zero. On the other hand, high inclination orbits

($i = 60^\circ, 90^\circ$) at these altitudes, do encounter solar protons, but the predicted exposure is virtually independent of h ; it is primarily a function of i .

For simplicity, a mean exposure value per inclination was then obtained by averaging over all h for each of the two i 's: 9% for $i = 60^\circ$ and 30% for $i = 90^\circ$. In Figure 219, this "average" exposure is depicted as a linear function of inclination.

Finally, Figure 220 shows the annual, omnidirectional, integral spectral profile of the vehicle encountered energetic solar proton fluence in units of particles per square centimeter.

Note: The results discussed in this section are valid for SATS missions planned for the time period 1977 - 1983, regardless of date of launching, as long as the operating lifetime (assumed to be one year in this study) is the same for every mission.

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APPENDIX A

General Background Information

For the selected SATS flight paths, orbit tapes were generated, with a constant integration stepsize of one minute, and for a 24 hour flight duration each.

Since all are low altitude orbits, this time interval is adequate to give a sufficient sampling of the ambient environment. (For more details see section: "Results, IV. Trajectory Data.") For the following twenty combinations of inclination and altitude, circular trajectories were thus produced:

<u>Incl.</u>	<u>Altitude (km)</u>
0°)	
30°)	
60°)	200, 400, 600, 800, 1000
90°)	

The orbits were subsequently converted from geocentric polar into magnetic B-L coordinates with McIlwain's INVAR Program of 1965 (Hassit and McIlwain, 1967) and with the field routine ALLMAG by Stassinopoulos and Mead (1972), utilizing the IGRF (1965) geomagnetic field model by Cain and Cain (1971), calculated for the epoch 1974.0 .

Orbital flux integrations were performed with Vette's current models of the environment, the new solar max AE5-AE4 for the inner and outer zone electrons, the AP6-AP7 for high energy protons, and the AP5 for low energy protons.

All are static models which do not consider temporal variations; this includes

the new electron models, at least as far as the present calculations are concerned. See text for further details on this matter.

The documents that describe these models are listed below:

Model

AE4	Singley and Vette, 1972
AE5	Teague and Vette, 1972
AP5	King, 1967
AP6	Lavine and Vette, 1969
AP7	Lavine and Vette, 1970

The results, relating to omnidirectional, vehicle encountered, integral, trapped particle fluxes, are presented in graphical and tabular form with the following unit conventions:

1. Daily averages: total trajectory integrated flux averaged into particles/cm² day,
2. Average instantaneous: time integrated average, characteristic of the orbit, in particles/cm² sec,
3. Totals per orbit: non-averaged, single-orbit, integrated flux in particles/cm² orbit, and
4. Peaks per orbit: highest orbit-encountered instantaneous flux in particles/cm² sec,

where one orbit = one revolution.

Please note: we wish to emphasize the fact that the data presented in this report are only approximations. We do not believe the results to be any better than a factor of 2 for the protons and a factor of 5 for the electrons. It is advisable to inform all potential users about this uncertainty in the data.

APPENDIX B

Description of Tables

a) The L-band Table:

The table contains 36 L-bands L_i of equal size, covering the range from $L \approx 1.0$ to $L \approx 8.2$ earth radii in constant increments of .2 earth radii. For the L-intervals determined in this way, orbital spectral functions

$$N(>E, E_N; L_i) = \left[\sum_k J_k(>E; B) \right]_{L_i} / \left[\sum_k J_k(>E_N; B) \right]_{L_i} \quad \begin{matrix} i=1, 36 \\ L_i: L_i < L \leq L_{i+1} \end{matrix} \quad (1)$$

are obtained at nine arbitrary energy levels such that the integral spectrum is equal to 1 for $E = E_N$, where E_N was taken to be .1, 5., and .5 Mev for low energy protons, the high energy protons, and the electrons, respectively. The notation L_i is used to indicate the L-band from L_i to L_{i+1} , while $J(>E; B)$ is the integral, omnidirectional flux yielded by the environment model used in the calculation. The spectral functions N are evaluated for the total flight time simulated in the study, where the summing index k selects all trajectory points lying in each L_i .

The corresponding orbital distribution functions, representing fluxes above energy E_N , are given by

$$F(E; L_i) = \Delta t \left[\sum_k J_k(>E; B) \right]_{L_i} \quad (2)$$

where Δt is the constant time increment of orbit integration, whose

standard value is 60 seconds. The distribution functions are fluxes accumulated in their respective L_1 bands over the total flight period considered.

The orbital distribution functions are listed on the table at the bottom of each L-interval and are labeled "NORMFLUX". The nine integral energy levels selected for the low and high energy protons and for electrons are given below in units of "Mev" for all particles:

<u>Protons</u>		<u>Electrons</u>
Low	High	
.1*	3.	0
.5	5.*	.5*
.9	10.	1.0
1.1	15.	1.5
1.5	20.	2.0
2.0	25.	2.5
2.5	30.	3.0
3.0	50.	4.0
3.5	100.	5.0

where the normalization energy is indicated by a star (*).

b) The Spectral Distribution and Exposure Index Table:

This table has three parts:

- I. The spectrum $\Psi_j(\Delta E)$ given in % for energy intervals that correspond to the energy levels of the previously discussed table (L-bands), with two special columns showing the total orbit integrated flux for these energy intervals averaged into instantaneous I_j^S and daily I_j^D intensities

$$v_j(\Delta E) = 100 \frac{I_j^D(\Delta E)}{F(>E_1)} \quad j=1,9 \quad (3)$$

where

$$F(>E_1) = C \sum_{k=1}^{k_0} J_k(>E_1; B, L) \Delta t \quad (4)$$

$$I_j^D(\Delta E) = C \sum_{k=1}^{k_0} \Delta t \left\{ J_k(>E_j; B, L) - J_k(>E_{j+1}; B, L) \right\} \quad (5)$$

$$I_j^S(\Delta E) = I_j^D(\Delta E) / 86400 \quad (6)$$

$$C = \frac{24}{T}, \quad T = k_0 \Delta t \quad i=1,36$$

and where k_0 is the upper limit of k . It is equal to the total number of time increments considered in the study.

II. The composite orbit spectrum for integral energies, giving the total vehicle encountered fluxes averaged into daily $S^D(>E_j)$ and per second $S^S(>E_j)$ intensities for 15 discrete energy levels:

$$S^D(>E_j) = c \Delta t \sum_{m=0}^T J_m(>E_j) \quad j=1,15 \quad (7)$$

$$S^S(>E_j) = S^D(>E_j) / 86400 \quad (8)$$

where the summation is performed for the entire simulated mission duration T and includes all fluxes with energies greater than E_j .

III. The exposure index, given (for the normalization energy used in the L-band table) at nine successive intensity ranges R_n one order of magnitude apart, in terms of exposure duration $\tau(R_n)$, converted to hours, and total number of particles $\phi(>E_N; R_n)$ accumulated while in that intensity range. The notation R_n is used to indicate the intensity range from r_n to r_{n+1} :

$$\phi(>E_N; R_n) = \tau(R_n) \theta(>E_N; R_n) \quad \begin{matrix} n=1,9 \\ R_n = r_n < r \leq r_{n+1} \end{matrix} \quad (9)$$

$$\theta(>E_N; R_n) = \left[\sum_{\ell} J(>E_N; r) \right]_{R_n} / \zeta_n \quad (10)$$

$$\tau(R_n) = \Delta t \zeta_n \quad (11)$$

where ζ_n is the upper limit of ℓ in each R_n .

c) The Table of Peaks:*

In this table, the absolute instantaneous peak flux encountered during each successive orbit (revolution) is listed for the indicated energy range. There are nine columns on this table. Column 1 is an orbit counting device, based on the period of the orbit when the trajectory lies in the equatorial plane and is circular, on the physical perigee in all elliptical cases, and on the equatorial crossing for circular inclined trajectories. Column 2 gives the peak flux. Columns 3, 4, and 5

*Omitted : Not applicable to synchronous orbits

indicate the spacecraft position in geocentric coordinates at which the peak was encountered, while columns 6, 7, and 8 determine respectively the time and the magnetic B-L coordinates for this event. It should be noted that all simulated flight paths for the purpose of orbital radiation studies start at $t_0 = 0$ hours. Finally, the last column indicates the total flux encountered during that particular orbit. It is advisable to disregard the last line on this table because many times that orbit is incomplete and the fluxes or positions shown do not correspond to true peaks.

d) The Exposure Analysis Summary:

The summary is contained in the left half of this last table of each set as a semi-independent and separate table. It indicates what percent of its total lifetime T the satellite spends in "flux free" regions of space, what percent of T in "high intensity" regions, and while in the latter, what percent of its total daily flux it accumulates.

In the context of this study, the term "flux free" applies to all regions of space where trapped particle fluxes are less than one proton or electron per square centimeter per second, having energies $E > .1$, $E > 5.$, and $E > .5$ Mev for the low energy protons, the high energy protons, and the electrons, respectively; by definition, this includes all regions outside the radiation belts. The concept of "trapped particle fluxes" is meant to include stably trapped, pseudo-trapped, and transient fluxes, as long as they are part of or contained in the environment models used and, in the case of transients or pseudos, their sources

are considered powerful enough to supply them frequently in substantial numbers.

Similarly, we define as "high intensity" those regions of space where the instantaneous, integral, omnidirectional, trapped-particle flux is greater than 10^3 protons with energies $E > .1$ or $E > 5$ Mev, and greater than 10^5 electrons with energies $E > .5$ Mev.

The values given in this table are statistical averages, obtained over extended intervals of mission time. However, they may vary significantly from one orbit to the next, when individual orbits are considered.

e) The Time Account Breakdown:

The breakdown of orbit time is given in the right half of the last table of every set, in the same semi-independent form as the summary. The table shows the total lifetime spent by the vehicle in the inner zone T^i ($1.0 < L \leq 2.5$) and the outer zone T^o ($2.5 < L \leq 7.0$) of the trapped particle radiation belt, and also the percent duration spent outside that region ($L > 7.0$), which is denoted by T^e (T-external), such that for any mission

$$T = T^i + T^o + T^e = 100\%.$$

The confinement of the outer zone within the boundary of the $L = 7.0$ volume is arbitrary and has no physical meaning. It is intended only as a simplification to facilitate our calculations. The region considered "external" ($L = 7.0$) in this study is still partially a domain of the outer zone, at least as far out as $L = 11.0$ earth radii, accord-

ing to the latest electron models (Singley and Vette, 1972).

A last item on this table: the inner zone time T^i may be subdivided into two parts: the percentage of time spent outside the region $(1.0 < L \leq 1.1)$ and inside the region $(1.1 < L \leq 2.5)$.

APPENDIX C

Description of Plots

a) The Time and Flux Histogram:

This plot shows two curves superimposed on the same graph, namely, one each for the variables "time" and "flux". Both are given as functions of the parameter L (earth radii) within the range $1 - L - 7$, on a semi-log scale. The plot depicts: (1) by a plain curve the characteristic trajectory intensities as obtained from the orbital integration process in terms of averaged, integral particle fluxes above a given energy, over constant L -bands of .1 earth radius width, and (2) by a contour marked with symbols the percent of total lifetime ($\%T$) spent in each L -interval. The logarithmic ordinate relates to the time-flux variables. The printed numbers are powers of 10 and pertain to the fluxes; the scale values for the time curve are given in the upper part of the ordinate label: from 10^{-3} to 10^2 percent of T . The type of particles, their integral energy, and the units, are all given in the lower part of the label. The label on top of the graph lists some useful information about the trajectory.

b) The Spectral Profile:

A graphical presentation of the final spectral distribution, obtained from the orbital integration process. The plot is a semi-log graph, where the abscissa is a linear energy scale for integral particle energies

E_0 in Mev, and the ordinate is a logarithmic scale for the orbit integrated fluxes, given in daily averages for energies greater than E_0 ; the printed scale values are powers of 10.

c) Peaks per Orbit: *

Here the absolute peak intensities, encountered per period, are plotted for the duration of the total flight time considered (1 period = 1 revolution = 1 orbit). The logarithmic ordinate relates to instantaneous particle fluxes of the environment at the indicated energy threshold, while the abscissa is a linear orbit enumeration.

d) World Map Grid Projection of Orbits:

The trajectory is plotted for several revolutions on a global map produced by a Miller Cylindrical Projection. The contours of the continents have been omitted for clarity. The positions of either equatorial crossing, of physical perigee, or of period commencement are indicated by numbers identifying the orbits shown in this graph. For all trajectories, the distance between successive sequential numbers is a measure of the orbit precession.

e) B-L Trace of Orbits:

This plot shows a trace of the trajectory in B-L space on a semi-log scale. Several orbits are usually depicted, each identified by its sequential number. The magnetic equator is entered on all plots. The logarithmic ordinate relates to the field strength B in gauss; the

* Omitted : Not applicable to synchronous orbits

printed values are exponents of 10. L is given in earth radii on the linear abscissa.

TABLE 1

Partial Listing of

Parameters, Constants, Variables, or Expressions designated as "standard" in the text

1. Standard Tables: set of tables as listed in Figure 1, in the regular format described in Appendix B.
2. Standard Plots: set of plots as listed in Figure 2, in the regular format described in Appendix C.
3. Standard Production Run: a production run processed on default options.
4. Standard Integration Stepsize: constant time increment of orbit integration: 1'(60").
5. Standard Energies: low energy protons $E > .1$ Mev, high energy protons $E > 5$. Mev, and electrons $E > .5$ Mev.
6. Standard Procedure: established procedure normally followed vs. procedure followed in special cases.

Table 2

B and L Extrema of SATS Trajectories

<u>Alt</u> (km)	<u>Incl</u> (degr)	<u>B-range</u> (gamma)	<u>L-range</u> (e.r.)
200	0	25546 - 38429	0.97 - 1.16
	30	22140 - 52689	0.94 - 1.94
	60	22073 - 60896	0.94 - 10.75
	90	22027 - 60987*	0.94 - 20.54*
400	0	23094 - 34474	1.10 - 1.20
	30	20246 - 47626	0.98 - 1.99
	60	20372 - 55130	0.98 - 10.78
	90	20249 - 54733*	0.98 - 16.90*
600	0	21259 - 31491	1.04 - 1.22
	30	18963 - 43549	1.01 - 2.11
	60	18945 - 50372	1.01 - 10.93
	90	18999 - 50295*	1.01 - 22.67
800	0	19344 - 28477	1.08 - 1.26
	30	17457 - 39579	1.04 - 2.11
	60	17424 - 45751	1.04 - 10.93
	90	17433 - 45705*	1.04 - 18.82 *
1000	0	17920 - 26154	1.11 - 1.29
	30	16330 - 36364	1.07 - 2.18
	60	16332 - 42068	1.07 - 11.38
	90	16412 - 42185*	1.07 - 22.24*

*

* These values are not true upper bounds for the respective trajectories

because calculations and storage of B and L are suspended by an (ALT,

LAT, LONG) - sensitive exclusion test.

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*****
** ORBITAL FLUX STUDY WITH COMPOSITE PARTICLE ENVIRONMENTS: VETTES AP5, AP6, AP7; AE4, AE5, FOR SOLAR MAXIMUM **** UNIFLX OF 1973 **
** ELECTRON FLUXES EXPONENTIALLY DECAYED TO 1970.0 WITH LIFETIMES: E0.G0STASSINOPOULOS6P.VEZARIU ** CUTOFF TIMES: **
** MAGNETIC COORDINATES B AND L COMPUTED BY INVARA OF 1972 WITH ALLMAG, MODEL 4: CAINESWEEENEY 120-TERM POGO 8/69 * TIME= 1974.0 **
** VEHICLE: SATS ** INCLINATION= 30DEG. ** PERIGEE= 200KM ** APOGEE= 200KM ** B/L ORBIT TAPE: TD7963 ** PERIOD= 1.475 **
*****
***** LOW ENERGY PROTONS *****
** SPECTRAL DISTRIBUTION : NORMALIZED BY FLUX OF ENERGY GREATER THAN .100 MEV **
*****

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[illegible][illegible][illegible]

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** ORBITAL FLUX STUDY WITH COMPOSITE PARTICLE ENVIRONMENTS: VETTES AP5, AP6, AP7: AE4, AE5, FOR SOLAR MAXIMUM *** UNIFLX OF 1973 **
** ELECTRON FLUXES EXPONENTIALLY DECAYED TO 1970, 0 WITH LIFETIMES: E.G. STASSINOPOLOUS GP, VERZARIU ** CUTOFF TIMES: **
** MAGNETIC COORDINATES B AND L COMPUTED BY INVAPA OF 1972 WITH ALLMAG, MODEL 4: CAINSWENEY 120-TERM PDGO 8/69 * TIME= 1974.0 **
--VEHICLE-- : SATS ----- ** INCLINATION= 306EG ** PERIGEE= 200KM ** APOGEE= --200KM --B/L ORBIT TAPE: TD7963 --PERIOD= 1.475 **
*****
*****
***** - HIGH ENERGY PROTONS *****
** SPECTRAL DISTRIBUTION : NORMALIZED BY FLUX OF ENERGY GREATER THAN 5.00 MEV **
*****

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ENERGY LEVELS-- >(MEV)	L - BANDS (MAGNETIC SHELL PARAMETER IN EARTH RADI I) L - BANDS											
	1.0-1.2	*1.2-1.4*	*1.4-1.6*	*1.6-1.8*	*1.8-2.0*	*2.0-2.2*	*2.2-2.4*	*2.4-2.6*	*2.6-2.8*	*2.8-3.0*	*3.0-3.2*	*3.2-3.4*
3.00	2.07E-00	2.07E-00	2.10E-00	3.00E-00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5.00	1.00E-00	1.00E-00	1.00E-00	1.00E-00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10.0	8.63E-01	8.89E-01	8.43E-01	7.10E-01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15.0	7.93E-01	8.33E-01	7.61E-01	5.98E-01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20.0	7.64E-01	6.47E-01	5.56E-01	4.87E-01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25.0	7.45E-01	4.87E-01	3.86E-01	3.95E-01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30.0	7.27E-01	3.72E-01	2.68E-01	3.21E-01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50.0	6.66E-01	1.51E-01	6.38E-02	9.36E-02	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100.	3.58E-01	3.64E-02	1.57E-02	1.56E-02	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NORMFLUX=	1.59E-04	9.73E-04	2.69E-04	3.43E-03	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

[illegible][illegible]

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** ORBITAL FLUX STUDY WITH COMPOSITE PARTICLE ENVIRONMENTS: VETTE'S AP5, AP6, AP7; AE4, AE5, FOR SOLAR MAXIMUM *** UNIFLX OF 1973 **
** ELECTRON FLUXES EXPONENTIALLY-DECAYED TO 1970.0 WITH LIFETIMES: E.G. STASSINOPoulos & P. VERZARIU ** CUTOFF-TIMES: **
** MAGNETIC COORDINATES B AND L COMPUTED BY INVARA OF 1972 WITH ALLMAG, MODEL 4; CAINE & SWEENEY 120-TERM POGO 8/69 * TIME= 1974.0 **
** VEHICLE : ... SATS ... ** INCLINATION= 30DEG ** PERIGEE= 200KM ** APOGEE= 200KM ** S/L ORBIT-TAPE: TD7963 ** PERIOD= 1.475 **

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[illegible][illegible][illegible]

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** ORBITAL FLUX STUDY WITH COMPOSITE PARTICLE ENVIRONMENTS: VETTES AP5, AP6, AP7; AE4, AE5, FOR SOLAR MAXIMUM *** UNIFLX OF 1973 ***
** ELECTRON-FLUXES EXPONENTIALLY DECAYED TO 1970. 0-WITH LIFETIMES: E0G0STASSINPOULOS&P.VERZARIU ** CUTOFF TIMES:
** MAGNETIC COORDINATES B AND L COMPUTED BY INVARA OF 1972 WITH ALLMAG, MODEL 4: CAINE&SWEENEY 120-TERM POGO 8/69 * TIME= 1974.0 **
** VEHICLE: SATS. ** INCLINATION= 60DEG ** PERIGEE= 200KM ** APOGEE= 200KM. ** B/L ORBIT TYPE: TD7963 ** PERIOD= 1.475 **

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*****LOW ENERGY PROTONS*****
 ** SPECTRAL DISTRIBUTION : NORMALIZED BY FLUX OF ENERGY GREATER THAN 100 MEV **

ENERGY LEVELS >(MEV)	L - BANDS (MAGNETIC SHELL					PARAMETER IN EARTH					RADI I) L - BANDS		
	1.0-1.2	*1.2-1.4*	*1.4-1.6*	*1.6-1.8*	*1.8-2.0*	*2.0-2.2*	*2.2-2.4*	*2.4-2.6*	*2.6-2.8*	*2.8-3.0*	*3.0-3.2*	*3.2-3.4*	
.100	1.00E C0	1.00E C0	1.00E C0	1.00E C0	1.00E C0	1.00E C0	1.00E C0	1.00E C0	1.00E C0	1.00E C0	1.00E C0	1.00E C0	
.500	8.62E-C1	8.41E-C1	8.38E-C1	8.36E-C1	8.45E-C1	6.59E-01	3.87E-01	4.01E-01	4.29E-01	4.03E-01	3.58E-01	3.31E-01	
.900	6.99E-01	6.92E-01	6.54E-C1	6.91E-01	6.98E-01	4.93E-01	1.86E-01	1.82E-01	1.77E-01	1.58E-01	1.29E-01	1.10E-01	
1.10	5.88E-C1	6.12E-01	6.23E-01	6.20E-01	6.17E-C1	4.43E-01	1.66E-01	1.42E-01	1.08E-01	9.53E-02	7.78E-02	6.40E-02	
1.50	4.26E-C1	4.80E-C1	5.02E-01	5.09E-01	4.84E-C1	3.67E-01	1.34E-C1	8.68E-02	4.03E-02	3.48E-02	2.84E-02	2.17E-02	
2.00	2.95E-01	3.57E-01	3.84E-C1	3.82E-01	3.59E-01	2.74E-01	1.03E-01	4.80E-02	1.18E-02	9.89E-03	8.05E-03	5.63E-03	
2.50	2.12E-C1	2.66E-01	2.95E-01	2.93E-01	2.67E-C1	2.11E-01	8.31E-02	2.70E-02	3.50E-03	2.82E-03	2.29E-03	1.47E-03	
3.00	1.66E-C1	2.00E-01	2.27E-C1	2.25E-01	1.99E-01	1.63E-01	6.30E-02	1.54E-02	1.04E-03	8.02E-04	6.51E-04	3.84E-04	
3.50	1.18E-01	1.51E-C1	1.75E-C1	1.73E-01	1.49E-01	1.26E-01	4.99E-02	8.93E-03	3.11E-04	2.29E-04	1.85E-04	1.01E-04	
NORMFLUX=	9.18E C4	7.29E C5	8.15E C5	1.44E C6	1.78E C6	2.98E C6	4.47E C6	7.45E C6	1.43E C7	5.56E C6	8.12E C6	1.32E C7	

ENERGY LEVELS >(MEV)	L - BANDS (MAGNETIC SHELL PARAMETER IN EARTH RADII) L - BANDS											
	3.4-3.6	*3.6-3.8*	*3.8-4.0*	*4.0-4.2*	*4.2-4.4*	*4.4-4.6*	*4.6-4.8*	*4.8-5.0*	*5.0-5.2*	*5.2-5.4*	*5.4-5.6*	*5.6-5.8*
.100	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	0.0	1.00E 00	1.00E 00	1.00E 00	1.00E 00	0.0
.500	2.99E-01	1.94E-01	1.11E-01	3.91E-02	8.66E-03	6.30E-03	0.0	3.65E-03	3.18E-03	5.50E-03	3.72E-03	0.0
.900	8.92E-02	3.78E-02	1.24E-02	1.54E-03	7.50E-05	3.97E-05	0.0	1.33E-05	6.85E-06	0.0	0.0	0.0
1.10	4.88E-02	1.67E-02	4.14E-03	3.06E-04	6.24E-06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.50	1.46E-02	3.28E-03	4.61E-04	1.03E-05	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.00	3.22E-03	4.33E-04	2.57E-05	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.50	7.11E-04	5.55E-05	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.00	1.57E-04	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.50	3.47E-05	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NORMFLUX=	2.30E 06	8.99E 06	3.25E 06	1.33E 07	1.05E 07	1.43E 07	0.0	2.14E 07	9.63E 06	7.73E 05	3.02E 06	0.0

[illegible]

Table 7

 ** ORBITAL FLUX STUDY WITH COMPOSITE PARTICLE ENVIRONMENTS: VETTES APS, AP6, AP7; AE4, A55, FOR SOLAR MAXIMUM **** UNIFLX OF 1973 **
 ** ELECTRON FLUXES EXPONENTIALLY DECAYED TO 1970. 0 WITH LIFETIMES: E.G. STASSINOPOULOS 6P, VERZARIU ** CUTOFF TIMES: **
 ** MAGNETIC COORDINATES B AND L COMPUTED BY INVARA OF 1972 WITH ALLMAG, MODEL 4: CAINE-SWEEENEY 120-TERM POGO 8/69 * TIME= 1974.0 **
 ** VEHICLE: SATS ** INCLINATION= 60DEG ** PERIGEE= 200KM ** APOGEE= 200KM ** B/L ORBIT TAPE: TD7963 ** PERIOD= 1.075 **

***** HIGH ENERGY PROTONS *****

** SPECTRAL DISTRIBUTION: NORMALIZED BY FLUX OF ENERGY GREATER THAN 5.00 MEV **

ENERGY L - BANDS (MAGNETIC SHELL PARAMETER IN EARTH RADII) L - BANDS
 LEVELS *1.0-1.2* *1.2-1.4* *1.4-1.6* *1.6-1.8* *1.8-2.0* *2.0-2.2* *2.2-2.4* *2.4-2.6* *2.6-2.8* *2.8-3.0* *3.0-3.2* *3.2-3.4*
 >(MEV)

3.00	1.89E 00	1.90E 00	1.87E 00	2.11E 00	2.52E 00	2.58E 00	2.61E 00	5.83E 00	2.48E 02	7.43E 01	8.81E 01	8.43E 01
5.00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	0.0	0.0	0.0	0.0
10.0	8.66E-01	8.82E-01	7.77E-01	4.76E-01	2.77E-01	1.71E-01	1.33E-01	8.29E-02	0.0	0.0	0.0	0.0
15.0	7.92E-01	8.18E-01	6.65E-01	3.10E-01	1.27E-01	5.67E-02	3.77E-02	2.18E-02	0.0	0.0	0.0	0.0
20.0	7.62E-01	6.40E-01	5.48E-01	2.51E-01	9.35E-02	2.88E-02	9.51E-03	0.0	0.0	0.0	0.0	0.0
25.0	7.44E-01	4.84E-01	4.47E-01	2.15E-01	7.79E-02	1.77E-02	1.37E-03	0.0	0.0	0.0	0.0	0.0
30.0	7.26E-01	3.69E-01	3.66E-01	1.94E-01	6.51E-02	1.00E-02	0.0	0.0	0.0	0.0	0.0	0.0
50.0	6.61E-01	1.38E-01	1.65E-01	9.84E-02	3.31E-02	2.19E-03	0.0	0.0	0.0	0.0	0.0	0.0
100.	3.46E-01	3.64E-02	5.52E-02	3.75E-02	6.90E-03	0.0	0.0	0.0	0.0	0.0	0.0	0.0

NORMFLUX= 7.56E 03 7.68E 04 9.87E 04 1.53E 05 1.41E 05 1.88E 05 1.05E 05 1.97E 04 0.0 0.0 0.0 0.0

ENERGY L - BANDS (MAGNETIC SHELL PARAMETER IN EARTH RADII) L - BANDS
 LEVELS *3.4-3.6* *3.6-3.8* *3.8-4.0* *4.0-4.2* *4.2-4.4* *4.4-4.6* *4.6-4.8* *4.8-5.0* *5.0-5.2* *5.2-5.4* *5.4-5.6* *5.6-5.8*
 >(MEV)

3.00	6.03E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

NORMFLUX= 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0

ENERGY L - BANDS (MAGNETIC SHELL PARAMETER IN EARTH RADII) L - BANDS
 LEVELS *5.8-6.0* *6.0-6.2* *6.2-6.4* *6.4-6.6* *6.6-6.8* *6.8-7.0* *7.0-7.2* *7.2-7.4* *7.4-7.6* *7.6-7.8* *7.8-8.0* *8.0-OVR*
 >(MEV)

3.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

NORMFLUX= 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0

Table 8

 ** ORBITAL FLUX STUDY WITH COMPOSITE PARTICLE ENVIRONMENTS: VHTTS AP5, AP6, AP7; AE4, AE5, FOR SOLAR MAXIMUM **** UNIFLX OF 1973 **
 ** ELECTRON FLUXES EXPONENTIALLY DECAYED TO 1970. 0 WITH LIFETIMES: E.G. STASSINOPOULOS P. VERZARIU ** CUTOFF TIMES: **
 ** MAGNETIC COORDINATES B AND L COMPUTED BY INVARA OF 1972 WITH ALLMAG. MODEL 4: CAINE SWEENEY 120-TERM POGO 8/69 ** TIME= 1974.0 **
 ** VEHICLE : SATS ** INCLINATION= 60DEG ** PERIGEE= 200KM ** APOGEE= 200KM ** B/L ORBIT TAPE: TD7963 ** PERIOD= 1.475 **

 ** SPECTRAL DISTRIBUTION : NORMALIZED BY FLUX OF ENERGY GREATER THAN .500 MEV **

ENERGY LEVELS >(MEV)	L - BANDS (MAGNETIC SHELL PARAMETER IN EARTH RADII) L - BANDS											
	1.0-1.2	*1.2-1.4*	*1.4-1.6*	*1.6-1.8*	*1.8-2.0*	*2.0-2.2*	*2.2-2.4*	*2.4-2.6*	*2.6-2.8*	*2.8-3.0*	*3.0-3.2*	*3.2-3.4*
.0	3.36E-01	1.51E-01	2.63E-01	1.42E-02	1.97E-02	3.78E-02	5.62E-02	2.18E-02	5.08E-01	1.87E-01	1.24E-01	1.41E-01
.500	1.00E-00	1.00E-00	1.00E-00	1.00E-00	1.00E-00	1.00E-00	1.00E-00	1.00E-00	1.00E-00	1.00E-00	1.00E-00	1.00E-00
1.00	6.78E-01	7.25E-02	1.99E-01	1.64E-01	6.24E-02	4.77E-02	5.25E-02	8.77E-02	2.55E-01	3.43E-01	3.67E-01	3.95E-01
1.50	5.32E-01	2.93E-02	1.66E-01	6.27E-02	1.48E-02	7.80E-03	7.88E-03	1.82E-02	1.04E-01	1.73E-01	1.80E-01	1.96E-01
2.00	3.59E-01	1.19E-02	6.64E-02	2.48E-02	4.17E-03	2.01E-03	1.06E-03	3.42E-03	4.35E-02	8.73E-02	8.83E-02	9.74E-02
2.50	2.04E-01	0.0	2.87E-02	8.74E-03	9.43E-04	1.20E-04	0.0	0.0	5.43E-03	4.00E-02	3.83E-02	4.29E-02
3.00	1.19E-01	0.0	8.54E-03	2.67E-03	9.11E-05	0.0	0.0	0.0	0.0	1.42E-02	1.42E-02	1.57E-02
4.00	1.49E-02	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.75E-04	3.81E-04	4.34E-04
5.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

NORMFLUX= 8.44E-03 1.76E-04 9.67E-05 1.47E-06 7.19E-05 5.43E-05 3.26E-05 1.10E-05 2.85E-04 1.88E-06 3.09E-07 9.17E-07

ENERGY LEVELS >(MEV)	L - BANDS (MAGNETIC SHELL PARAMETER IN EARTH RADII) L - BANDS											
	3.4-3.6	*3.6-3.8*	*3.8-4.0*	*4.0-4.2*	*4.2-4.4*	*4.4-4.6*	*4.6-4.8*	*4.8-5.0*	*5.0-5.2*	*5.2-5.4*	*5.4-5.6*	*5.6-5.8*
.0	1.47E-01	1.18E-01	8.57E-02	6.90E-02	6.58E-02	6.64E-02	6.75E-02	7.13E-02	7.39E-02	7.41E-02	7.67E-02	7.40E-02
.500	1.00E-00	1.00E-00	1.00E-00	1.00E-00	1.00E-00	1.00E-00	1.00E-00	1.00E-00	1.00E-00	1.00E-00	1.00E-00	1.00E-00
1.00	3.97E-01	3.82E-01	3.65E-01	3.56E-01	3.61E-01	3.55E-01	3.51E-01	3.39E-01	3.30E-01	3.26E-01	3.10E-01	2.83E-01
1.50	1.99E-01	1.91E-01	1.78E-01	1.51E-01	1.44E-01	1.34E-01	1.31E-01	1.23E-01	1.14E-01	1.08E-01	9.79E-02	8.80E-02
2.00	9.96E-02	9.56E-02	7.50E-02	6.43E-02	5.78E-02	5.07E-02	4.88E-02	4.44E-02	3.96E-02	3.59E-02	3.09E-02	2.73E-02
2.50	4.55E-02	4.83E-02	3.90E-02	2.87E-02	2.45E-02	2.03E-02	1.84E-02	1.57E-02	1.29E-02	1.08E-02	8.69E-03	7.65E-03
3.00	1.78E-02	2.06E-02	1.76E-02	1.27E-02	9.75E-03	7.37E-03	5.91E-03	4.56E-03	3.46E-03	2.77E-03	2.13E-03	1.96E-03
4.00	5.36E-04	6.92E-04	5.66E-04	4.01E-04	2.84E-04	1.89E-04	1.55E-04	1.13E-04	7.79E-05	6.12E-05	4.24E-05	1.50E-05
5.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

NORMFLUX= 4.60E-07 7.90E-07 7.39E-07 7.96E-07 5.15E-07 3.24E-07 1.96E-07 3.85E-07 3.67E-07 1.53E-07 7.17E-06 4.62E-06

ENERGY LEVELS >(MEV)	L - BANDS (MAGNETIC SHELL PARAMETER IN EARTH RADII) L - BANDS											
	5.8-6.0	*6.0-6.2*	*6.2-6.4*	*6.4-6.6*	*6.6-6.8*	*6.8-7.0*	*7.0-7.2*	*7.2-7.4*	*7.4-7.6*	*7.6-7.8*	*7.8-8.0*	*8.0-OVR*
.0	6.85E-01	8.42E-02	1.22E-01	1.11E-01	1.35E-01	1.68E-01	2.29E-01	3.34E-01	3.75E-01	7.66E-01	1.43E-02	1.51E-04
.500	1.00E-00	1.00E-00	1.00E-00	1.00E-00	1.00E-00	1.00E-00	1.00E-00	1.00E-00	1.00E-00	1.00E-00	1.00E-00	1.00E-00
1.00	2.58E-01	2.40E-01	2.39E-01	2.37E-01	2.04E-01	1.43E-01	1.40E-01	1.21E-01	1.17E-01	9.74E-02	8.64E-02	2.19E-02
1.50	7.98E-02	6.83E-02	6.81E-02	6.31E-02	5.00E-02	3.63E-02	2.92E-02	2.46E-02	2.35E-02	1.82E-02	1.59E-02	0.0
2.00	2.46E-02	1.94E-02	1.77E-02	1.68E-02	1.22E-02	8.11E-03	6.11E-03	4.99E-03	4.70E-03	3.44E-03	2.93E-03	0.0
2.50	6.92E-03	4.99E-03	4.34E-03	4.03E-03	2.76E-03	1.76E-03	1.24E-03	1.01E-03	9.32E-04	0.0	0.0	0.0
3.00	1.86E-03	1.17E-03	9.16E-04	7.77E-04	5.49E-04	3.69E-04	2.51E-04	0.0	0.0	0.0	0.0	0.0
4.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

NORMFLUX= 2.47E-05 5.49E-06 2.56E-06 1.14E-06 7.20E-05 7.98E-05 6.04E-05 1.85E-05 3.87E-05 2.32E-05 5.43E-04 1.39E-04

Table 9

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** ORBITAL FLUX STUDY WITH COMPOSIT. PARTICLE ENVIRONMENTS: VETTES AP5, AP6, AP7: AE4, AES, FOR SOLAR MAXIMUM *** UNIFLX OF 1973 **
** ELECTRON FLUXES EXPONENTIALLY DECAYED TO 1970. 0 WITH LIFETIMES: E.G. STASSINPOULOS&P. VERZARIU ** CUTOFF TIMES: ***** **
** MAGNETIC COORDINATES R AND L COMPUTED BY INVARS OF 1972 WITH ALLMAG, MODEL 4: CAINESEWENEY 120-TERM PGD0 8/69 * TIME= 1974.0 **
** VEHICLE : SATS ** INCLINATION= 90DEG ** PERIGEE= 200KM ** APOGEE= 200KM ** S/L ORBIT TAPE: TD7963 *** PERIOD= 1.475 **
*****
***** LOW ENERGY PROTONS *****
** SPECTRAL DISTRIBUTION : NORMALIZED BY FLUX OF ENERGY GREATER THAN .100 MEV **
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ENERGY LEVELS >(MEV)	L - BANDS (MAGNETIC SHELL PARAMETER IN EARTH RADII) L - BANDS											
	1.0-1.2	*1.2-1.4*	*1.4-1.6*	*1.6-1.8*	*1.8-2.0*	*2.0-2.2*	*2.2-2.4*	*2.4-2.6*	*2.6-2.8*	*2.8-3.0*	*3.0-3.2*	*3.2-3.4*
.100	1.00E-00	1.00E-00	1.00E-00	1.00E-00	1.00E-00	1.00E-00	1.00E-00	1.00E-00	1.00E-00	1.00E-00	1.00E-00	1.00E-00
.500	9.84E-01	8.43E-01	8.40E-01	8.37E-01	8.53E-01	6.89E-01	3.93E-01	3.89E-01	4.30E-01	3.97E-01	3.46E-01	3.36E-01
.900	7.42E-01	6.93E-01	6.97E-01	6.92E-01	7.11E-01	4.24E-01	1.91E-01	1.74E-01	1.80E-01	1.55E-01	1.21E-01	1.15E-01
1.10	6.44E-01	6.67E-01	6.26E-01	6.19E-01	6.31E-01	3.84E-01	1.71E-01	1.38E-01	1.14E-01	9.48E-02	7.18E-02	6.81E-02
1.50	4.96E-01	4.74E-01	5.66E-01	4.97E-01	4.98E-01	3.15E-01	1.37E-01	8.74E-02	4.55E-02	3.55E-02	2.55E-02	2.41E-02
2.00	3.72E-01	3.50E-01	3.89E-01	3.78E-01	3.71E-01	2.47E-01	1.04E-01	5.09E-02	1.46E-02	1.04E-02	6.98E-03	6.67E-03
2.50	2.89E-01	2.51E-01	2.59E-01	2.89E-01	2.77E-01	1.96E-01	7.97E-02	3.05E-02	4.70E-03	3.05E-03	1.91E-03	1.79E-03
3.00	2.31E-01	1.95E-01	2.31E-01	2.21E-01	2.08E-01	1.56E-01	6.11E-02	1.87E-02	1.53E-03	8.24E-04	6.25E-04	4.69E-04
3.50	1.88E-01	1.47E-01	1.78E-01	1.69E-01	1.56E-01	1.25E-01	4.70E-02	1.18E-02	4.99E-04	2.62E-04	1.44E-04	1.34E-04
NORMFLUX=	3.45E-04	7.75E-05	5.81E-05	1.19E-06	1.34E-06	2.51E-06	2.29E-06	4.37E-06	5.40E-06	5.37E-06	4.85E-06	2.97E-06
ENERGY LEVELS >(MEV)	L - BANDS (MAGNETIC SHELL PARAMETER IN EARTH RADII) L - BANDS											
	3.4-3.6	*3.6-3.8*	*3.8-4.0*	*4.0-4.2*	*4.2-4.4*	*4.4-4.6*	*4.6-4.8*	*4.8-5.0*	*5.0-5.2*	*5.2-5.4*	*5.4-5.6*	*5.6-5.8*
.100	1.00E-00	1.00E-00	0.0	1.00E-00	1.00E-00	1.00E-00	1.00E-00	1.00E-00	1.00E-00	1.00E-00	0.0	1.00E-00
.500	2.69E-01	2.00E-01	0.0	2.82E-02	8.18E-03	3.99E-02	4.35E-03	4.02E-03	3.85E-03	3.53E-03	0.0	3.56E-03
.900	7.25E-02	4.04E-02	0.0	8.99E-04	6.70E-05	0.0	1.89E-05	1.62E-05	1.27E-05	1.25E-05	0.0	1.14E-05
1.10	3.77E-02	1.82E-02	0.0	1.68E-04	4.95E-06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.50	1.02E-02	3.79E-03	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.00	2.01E-03	5.11E-04	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.50	3.98E-04	6.16E-05	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.00	7.94E-05	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.50	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NORMFLUX=	4.42E-06	5.61E-06	0.0	1.55E-07	3.03E-07	2.16E-04	1.53E-07	3.59E-07	1.38E-07	5.74E-06	0.0	6.42E-06
ENERGY LEVELS >(MEV)	L - BANDS (MAGNETIC SHELL PARAMETER IN EARTH RADII) L - BANDS											
	5.8-6.0	*6.0-6.2*	*6.2-6.4*	*6.4-6.6*	*6.6-6.8*	*6.8-7.0*	*7.0-7.2*	*7.2-7.4*	*7.4-7.6*	*7.6-7.8*	*7.8-8.0*	*8.0-OVR*
.100	1.00E-00	1.00E-00	1.00E-00	1.00E-00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
.500	3.23E-03	3.23E-03	1.42E-01	9.28E-02	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
.900	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.50	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.50	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.50	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NORMFLUX=	1.20E-07	2.98E-06	4.22E-03	5.58E-03	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Table 10

 ** ORBITAL FLUX STUDY WITH COMPOSITE PARTICLE ENVIRONMENTS: VETLS APS, AP6, AP7; AE4, AE5, FOR SOLAR MAXIMUM *** UNIFLX OF 1973 **
 ** ELECTRON FLUXES EXPONENTIALLY DECAYED TO 1970. G WITH LIFETIMES: F.G.STASSINOPoulos6P.VF6ZARIU ** CUTOFF TIMES: **
 ** MAGNETIC COORDINATES B AND L COMPUTED BY INVARI OF 1972 WITH ALL-AG. MODEL 4: CAINESWENNEY 120-TERM POGO 8/69 * TIME= 1974.0 **
 ** VEHICLE : SATS ** INCLINATION= 90DEG ** PERIGEE= 200KM ** APOGEE= 200KM ** E/L ORBIT TAPE: TP7963 ** PERIOD= 1.475 **

 ** HIGH ENERGY PROTONS *****
 ** SPECTRAL DISTRIBUTION : NORMALIZED BY FLUX OF ENERGY GREATER THAN 5.00 MEV **

ENERGY LEVELS >(MEV)	L - BANDS (MAGNETIC SHELL PARAMETER IN EARTH RADII) L - BANDS											
	1.0-1.2	*1.2-1.4*	*1.4-1.6*	*1.6-1.8*	*1.8-2.0*	*2.0-2.2*	*2.2-2.4*	*2.4-2.6*	*2.6-2.8*	*2.8-3.0*	*3.0-3.2*	*3.2-3.4*
3.00	1.68E-01	1.91E-01	1.87E-01	2.14E-01	2.54E-01	2.41E-01	2.84E-01	4.57E-01	1.29E-02	8.01E-01	4.25E-01	2.42E-01
5.00	1.80E-01	1.82E-01	1.80E-01	1.80E-01	1.80E-01	1.80E-01	1.80E-01	1.80E-01	1.80E-01	1.80E-01	0.0	0.0
10.0	8.71E-01	8.78E-01	7.49E-01	4.70E-01	2.57E-01	1.67E-01	1.26E-01	8.20E-02	0.0	0.0	0.0	0.0
15.0	8.02E-01	8.11E-01	6.25E-01	3.80E-01	1.11E-01	5.42E-02	3.46E-02	1.66E-02	0.0	0.0	0.0	0.0
20.0	7.79E-01	6.34E-01	5.11E-01	2.42E-01	7.39E-02	2.49E-02	8.46E-03	3.83E-03	0.0	0.0	0.0	0.0
25.0	7.65E-01	4.81E-01	4.17E-01	2.07E-01	6.35E-02	1.42E-02	1.24E-03	0.0	0.0	0.0	0.0	0.0
30.0	7.52E-01	3.68E-01	3.41E-01	1.77E-01	5.12E-02	8.23E-03	0.0	0.0	0.0	0.0	0.0	0.0
50.0	7.44E-01	1.43E-01	1.57E-01	9.59E-02	2.23E-02	1.70E-03	0.0	0.0	0.0	0.0	0.0	0.0
100.	4.42E-01	3.84E-02	5.25E-02	2.53E-02	3.92E-03	0.0	0.0	0.0	0.0	0.0	0.0	0.0

NORMFLUX= 4.74E-03 7.92E-04 7.17E-04 1.22E-05 1.09E-05 1.63E-05 4.92E-04 1.80E-04 6.41E-01 0.0 0.0 0.0

ENERGY LEVELS >(MEV)	L - BANDS (MAGNETIC SHELL PARAMETER IN EARTH RADII) L - BANDS											
	3.4-3.6	*3.6-3.8*	*3.8-4.0*	*4.0-4.2*	*4.2-4.4*	*4.4-4.6*	*4.6-4.8*	*4.8-5.0*	*5.0-5.2*	*5.2-5.4*	*5.4-5.6*	*5.6-5.8*
3.00	5.85E-01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

NORMFLUX= 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0

ENERGY LEVELS >(MEV)	L - BANDS (MAGNETIC SHELL PARAMETER IN EARTH RADII) L - BANDS											
	6.8-7.0	*7.0-7.2*	*7.2-7.4*	*7.4-7.6*	*7.6-7.8*	*7.8-8.0*	*8.0-OVR*					
3.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

NORMFLUX= 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0

 ** ORBITAL FLUX STUDY WITH COMPOSITE PARTICLE ENVIRONMENTS: VETTES AP5, AP6, AP7; AE4, AE5, FOR SOLAR MAXIMUM *** UNIFLX OF 1973 **
 ** ELECTRON FLUXES EXPONENTIALLY DECAYED TO 1970. 0 WITH LIFETIMES: E.G. STASSINOPOLDS6P, VERZARIU ** CUTOFF TIMES: **
 ** MAGNETIC COORDINATES B AND L COMPUTED BY INVARA OF 1972 WITH ALLMAG, MODEL 4: CAINESSWENEY 120-TERM POGO 8/69 * TIME= 1974.0 **
 ** VEHICLE: SATS ** INCLINATION= 90DEG ** PERIGEE= 200KM ** APOGEE= 200KM ** B/L ORBIT TAPE: TD7063 ** PERIOD= 1.475 **

ELECTRONS

 ** SPECTRAL DISTRIBUTION: NORMALIZED BY FLUX OF ENERGY GREATER THAN .500 MEV **

ENERGY LEVELS >(MEV)	L - BANDS (MAGNETIC SHELL					PARAMETER IN EARTH					RADI I)			L - BANDS
	1.0-1.2	*1.2-1.4*	*1.4-1.6*	*1.6-1.8*	*1.8-2.0*	*2.0-2.2*	*2.2-2.4*	*2.4-2.6*	*2.6-2.8*	*2.8-3.0*	*3.0-3.2*	*3.2-3.4*		
0	2.77E 00	1.62E 01	4.24E 01	1.32E 02	2.19E 02	4.40E 02	6.76E 02	5.38E 02	5.56E 01	1.88E 01	1.18E 01	1.36E 01		
.500	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00		
1.00	7.16E-01	5.99E-02	2.50E-01	1.71E-01	5.50E-02	4.57E-02	5.29E-02	7.56E-02	1.74E-01	3.46E-01	3.70E-01	3.94E-01		
1.50	5.68E-01	2.05E-02	1.65E-01	6.47E-02	1.21E-02	7.23E-03	7.76E-03	1.49E-02	5.85E-02	1.76E-01	1.81E-01	1.96E-01		
2.00	4.03E-01	5.62E-03	8.43E-02	2.59E-02	3.21E-03	1.86E-03	1.07E-03	3.13E-03	2.09E-02	8.99E-02	8.89E-02	9.70E-02		
2.50	2.44E-01	0.0	3.42E-02	9.74E-03	6.02E-04	1.48E-04	0.0	0.0	0.0	4.14E-02	3.83E-02	4.26E-02		
3.00	1.43E-01	0.0	1.06E-02	3.21E-03	0.0	0.0	0.0	0.0	0.0	1.43E-02	1.41E-02	1.56E-02		
4.00	1.05E-02	0.0	1.00E-04	0.0	0.0	0.0	0.0	0.0	0.0	4.09E-04	3.85E-04	4.31E-04		
5.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
NORMFLUX=	6.27E 03	1.49E 04	6.72E 05	1.08E 06	5.93E 05	4.74E 05	1.60E 05	8.38E 04	1.72E 04	1.55E 06	2.56E 07	3.95E 07		
ENERGY LEVELS >(MEV)	L - BANDS (MAGNETIC SHELL					PARAMETER IN EARTH					RADI I)			L - BANDS
	3.4-3.6	*3.6-3.8*	*3.8-4.0*	*4.0-4.2*	*4.2-4.4*	*4.4-4.6*	*4.6-4.8*	*4.8-5.0*	*5.0-5.2*	*5.2-5.4*	*5.4-5.6*	*5.6-5.8*		
0	1.49E 01	1.19E 01	9.61E 00	6.86E 00	6.60E 00	6.67E 00	6.86E 00	7.16E 00	7.37E 00	7.45E 00	7.61E 00	7.57E 00		
.500	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00		
1.00	3.97E-01	3.84E-01	3.66E-01	3.57E-01	3.60E-01	3.54E-01	3.48E-01	3.38E-01	3.31E-01	3.26E-01	3.14E-01	2.82E-01		
1.50	1.98E-01	1.92E-01	1.71E-01	1.50E-01	1.43E-01	1.33E-01	1.29E-01	1.22E-01	1.16E-01	1.08E-01	1.00E-01	8.64E-02		
2.00	9.93E-02	9.60E-02	7.97E-02	6.34E-02	5.72E-02	5.00E-02	4.76E-02	4.41E-02	4.09E-02	3.60E-02	3.18E-02	2.65E-02		
2.50	4.53E-02	4.80E-02	3.54E-02	2.81E-02	2.41E-02	1.99E-02	1.77E-02	1.55E-02	1.36E-02	1.09E-02	9.03E-03	7.30E-03		
3.00	1.77E-02	2.04E-02	1.78E-02	1.23E-02	9.56E-03	7.18E-03	5.61E-03	4.47E-03	3.72E-03	2.79E-03	2.23E-03	1.83E-03		
4.00	5.29E-04	6.33E-04	6.10E-04	3.82E-04	2.75E-04	1.81E-04	1.44E-04	1.10E-04	8.65E-05	6.35E-05	3.58E-05	2.09E-05		
5.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
NORMFLUX=	5.72E 07	7.76E 07	3.67E 07	9.63E 07	7.26E 07	3.01E 07	3.77E 07	3.64E 07	4.18E 07	1.42E 07	1.24E 07	1.32E 07		
ENERGY LEVELS >(MEV)	L - BANDS (MAGNETIC SHELL					PARAMETER IN EARTH					RADI I)			L - BANDS
	5.8-6.0	*6.0-6.2*	*6.2-6.4*	*6.4-6.6*	*6.6-6.8*	*6.8-7.0*	*7.0-7.2*	*7.2-7.4*	*7.4-7.6*	*7.6-7.8*	*7.8-8.0*	*8.0-OVR*		
0	7.49E 00	8.34E 00	9.80E 00	1.13E 01	1.36E 01	1.61E 01	2.30E 01	3.04E 01	4.12E 01	5.95E 01	1.40E 02	4.43E 03		
.500	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00		
1.00	2.50E-01	2.41E-01	2.39E-01	2.35E-01	2.05E-01	1.71E-01	1.46E-01	1.25E-01	1.14E-01	1.03E-01	8.65E-02	4.64E-02		
1.50	7.42E-02	6.87E-02	6.55E-02	6.20E-02	4.98E-02	3.87E-02	2.93E-02	2.55E-02	2.25E-02	1.96E-02	1.59E-02	4.55E-03		
2.00	2.20E-02	1.96E-02	1.80E-02	1.64E-02	1.21E-02	8.75E-03	6.14E-03	5.19E-03	4.43E-03	3.72E-03	2.93E-03	7.02E-04		
2.50	5.94E-03	5.08E-03	4.44E-03	3.88E-03	2.71E-03	1.88E-03	1.26E-03	1.05E-03	8.17E-04	0.0	0.0	0.0		
3.00	1.52E-03	1.20E-03	9.52E-04	7.75E-04	5.24E-04	3.66E-04	2.11E-04	7.02E-05	0.0	0.0	0.0	0.0		
4.00	8.66E-06	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
5.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
NORMFLUX=	1.60E 07	9.20E 06	5.66E 06	4.20E 06	2.68E 06	1.68E 06	1.18E 06	1.15E 06	7.06E 05	4.58E 04	1.39E 05	1.60E 05		

Table 12

 ** ORBITAL FLUX STUDY WITH COMPOSITE PARTICLE ENVIRONMENTS: VETTES AP5, AP6, AP7; AF4, AE5, FOR SOLAR MAXIMUM **** UNIFLX OF 1973 **
 ** ELECTRON FLUXES EXPONENTIALLY DECAYED TO 1970. 0 WITH LIFETIMES: F.G. STASSINOPoulos & P. VERZARIU ** CUTOFF TIMES: **
 ** MAGNETIC COORDINATES 0 AND L COMPUTED BY INVARA OF 1972 WITH ALLMAG, MODEL 4: CAINGSWEFNEY 120-TERM PGD 8/69 * TIME= 1974.0 **
 ** VEHICLE : SATS ** INCLINATION= 00CG ** PERIGEE= 400KM ** APOGEE= 400KM ** B/L ORBIT TAPE: TD6794 ** PERIOD= 1.543 **

 ***** LOW ENERGY PROTONS *****
 ** SPECTRAL DISTRIBUTION : NORMALIZED BY FLUX OF ENERGY GREATER THAN .100 MEV **

ENERGY LEVELS >(MEV)	L - BANDS (MAGNETIC SHELL PARAMETER IN EARTH RADII) L - BANDS											
	1.0-1.2	*1.2-1.4*	*1.4-1.6*	*1.6-1.8*	*1.8-2.0*	*2.0-2.2*	*2.2-2.4*	*2.4-2.6*	*2.6-2.8*	*2.8-3.0*	*3.0-3.2*	*3.2-3.4*
.100	1.00E-01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
.500	9.48E-01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
.900	8.69E-01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.10	7.99E-01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.50	6.81E-01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.00	5.65E-01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.50	4.76E-01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.00	4.08E-01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.50	3.54E-01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

NORMFLUX= 2.87E-04 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0

ENERGY LEVELS >(MEV)	L - BANDS (MAGNETIC SHELL PARAMETER IN EARTH RADII) L - BANDS											
	3.4-3.6	*3.6-3.8*	*3.8-4.0*	*4.0-4.2*	*4.2-4.4*	*4.4-4.6*	*4.6-4.8*	*4.8-5.0*	*5.0-5.2*	*5.2-5.4*	*5.4-5.6*	*5.6-5.8*
.100	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
.500	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
.900	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.50	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.50	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.50	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

NORMFLUX= 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0

ENERGY LEVELS >(MEV)	L - BANDS (MAGNETIC SHELL PARAMETER IN EARTH RADII) L - BANDS											
	5.8-6.0	*6.0-6.2*	*6.2-6.4*	*6.4-6.6*	*6.6-6.8*	*6.8-7.0*	*7.0-7.2*	*7.2-7.4*	*7.4-7.6*	*7.6-7.8*	*7.8-8.0*	*8.0-OVR*
.100	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
.500	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
.900	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.50	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.50	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.50	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

NORMFLUX= 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0

[illegible]

ENERGY LEVELS >(MeV)	L - BANDS (MAGNETIC SHELL				PARAMETER				IN FARTH				RADI I)				L - BANDS			
	3.4-3.6	*3.6-3.8*	*3.8-4.0*	*4.0-4.2*	*4.2-4.4*	*4.4-4.6*	*4.6-4.8*	*4.8-5.0*	*5.0-5.2*	*5.2-5.4*	*5.4-5.6*	*5.6-5.8*								
4.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0								
5.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0								
10.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0								
15.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0								
20.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0								
25.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0								
30.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0								
50.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0								
100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0								
NORMFLUX=	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0								

[illegible]

Table 14

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*****
** ORBITAL FLUX STUDY WITH COMPOSITE PARTICLE ENVIRONMENTS: VTTLS APS, AP6, AP7, AS4, AS5, FOR SOLAR MAXIMUM **** UNIFLK OF 1973 **
** ELECTRON FLUXES EXPONENTIALLY DECAYED TO 1974.0 WITH LIFETIMS: E.G. STASSINOPOULOSGP.VFZARIU ** CUTOFF TIMES: **
** MAGNETIC COORDINATES B AND L COMPUTED BY INVARA OF 1972 WITH ALLMAG, MODEL 4: CAINESSWANEY 120-TERM PDGD 8/69 * TIME= 1974.0 **
** VEHICLE: SATS ** INCLINATION= 30DG ** PERIGEE= 40CKM ** APOGEE= 40CKM ** R/L ORBIT TAPE: YD6794 ** PERIOD= 1.543 **
*****
***** ELECTIONS *****
** SPECTRAL DISTRIBUTION: NORMALIZED BY FLUX OF ENERGY GREATER THAN .500 MEV **
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[illegible][illegible][illegible]

Table 15

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*****Table A*****
** ORBITAL FLUX STUDY WITH COMPOSITE PARTICLE ENVIRONMENTS: VETTES AP5, AP6, AP7; AE4, AE5, FOR SOLAR MAXIMUM *** UNIFLX OF 1973 **
** ELECTRON FLUXES EXPONENTIALLY DECAYED TO 1970. 0 WITH LIFETIMES: E.G. STASSINOPOLISEP, VERZARIU ** CUTOFF TIMES: **
** MAGNETIC COORDINATES B AND L COMPUTED BY INVARA OF 1972 WITH ALLMAG, MODEL 4; CAINESEWERNY 120-TERM POGO B/69 * TIME= 1974.0 **
** VEHICLE : SATS ***** INCLINATION= 30DEG ** PERIGEE= -400KM ** APOGEE= 400KM ** B/L ORBIT TAPE: T06794 ** PFRIDC= 1,543 **
*****
***** LOW ENERGY PROTONS *****
** SPECTRAL DISTRIBUTION : NORMALIZED BY FLUX OF ENERGY GREATER THAN .100 MEV **
*****

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[illegible][illegible][illegible]

Table 16

 ** ORBITAL FLUX STUDY WITH COMPOSITE PARTICLE ENVIRONMENTS: VETTES APS, AP6, AP7; AE4, AE5, FOR SOLAR MAXIMUM **** UNIFLX OF 1973 **
 ** ELECTRON FLUXES EXPONENTIALLY DECAYED TO 1970. 0 WITH LIFETIMES: E.G. STASSINOPOULOS6P, VERZARIU ** CUTOFF TIMES: **
 ** MAGNETIC COORDINATES B AND L COMPUTED BY INVARA OF 1972 WITH ALLMAG, MODEL 4: CAINESWEEKEY 120-TERM PGD 8/69 * TIME= 1974.0 **
 ** VEHICLE : SATS ** INCLINATION= 33DEG ** PERIGEE= 400KM ** APOGEE= 400KM ** R/L ORBIT TAPE: TD6794 ** PERIOD= 1.543 **

 ***** HIGH ENERGY PROTONS *****
 ** SPECTRAL DISTRIBUTION : NORMALIZED BY FLUX OF ENERGY GREATER THAN 5.00 MEV **

ENERGY LEVELS > (MEV) L - BANDS (MAGNETIC SHELL PARAMETER IN EARTH RADII) L - BANDS
 1.0-1.2 *1.2-1.4* *1.4-1.6* *1.6-1.8* *1.8-2.0* *2.0-2.2* *2.2-2.4* *2.4-2.6* *2.6-2.8* *2.8-3.0* *3.0-3.2* *3.2-3.4*

3.00	1.59E-01	1.51E-01	1.58E-01	1.91E-01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5.00	1.00E-01	1.06E-01	1.00E-01	1.06E-01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10.0	7.57E-01	7.72E-01	6.88E-01	4.91E-01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15.0	6.38E-01	6.52E-01	5.42E-01	3.17E-01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20.0	6.07E-01	5.89E-01	4.76E-01	2.56E-01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25.0	5.95E-01	5.61E-01	4.29E-01	2.18E-01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30.0	5.83E-01	5.27E-01	3.88E-01	1.86E-01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50.0	5.38E-01	4.16E-01	2.63E-01	7.79E-02	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100.	3.32E-01	2.19E-01	1.10E-01	3.07E-02	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

NORMFLUX= 4.98E-05 1.62E-06 9.76E-05 7.28E-05 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0

ENERGY LEVELS > (MEV) L - BANDS (MAGNETIC SHELL PARAMETER IN EARTH RADII) L - BANDS
 3.4-3.6 *3.6-3.8* *3.8-4.0* *4.0-4.2* *4.2-4.4* *4.4-4.6* *4.6-4.8* *4.8-5.0* *5.0-5.2* *5.2-5.4* *5.4-5.6* *5.6-5.8*

3.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

NORMFLUX= 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0

ENERGY LEVELS > (MEV) L - BANDS (MAGNETIC SHELL PARAMETER IN EARTH RADII) L - BANDS
 5.8-6.0 *6.0-6.2* *6.2-6.4* *6.4-6.6* *6.6-6.8* *6.8-7.0* *7.0-7.2* *7.2-7.4* *7.4-7.6* *7.6-7.8* *7.8-8.0* *8.0-OVR*

3.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

NORMFLUX= 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0

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** ORBITAL FLUX STUDY WITH COMPOSITE PARTICLE ENVIRONMENTS: VETTES AP5, AP6, AP7; AE4, AE5, FOR SOLAR MAXIMUM *** UNIFLX OF 1973 **
** ELECTRON FLUXES EXPONENTIALLY DECAYED TO 1970.0 WITH LIFETIMES: E.G. STASSINPOULOS & VERZARIU ** CUTOFF TIMES: **
** MAGNETIC COORDINATES B AND L COMPUTED BY INVARA OF 1972 WITH ALLMAG, MODEL 4: CAINE SWEENEY 120-TERM POGO 8/69 * TIME= 1974.0 **
** VEHICLE: SATS ** INCLINATION= 30DEG ** PERIGEE= 400KM ** APOGEE= 400KM ** B/L ORBIT TAPE: TDG794 ** PERIOD= 1.343 **
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*****-----ELECTRONS*****
** SPECTRAL DISTRIBUTION : NORMALIZED BY FLUX OF ENERGY GREATER THAN .500 MEV **
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ENERGY LEVELS >(MEV)	L - BANDS (MAGNETIC SHELL PARAMETER IN EARTH RADII) L - BANDS											
	1.0-1.2	*1.2-1.4*	*1.4-1.6*	*1.6-1.8*	*1.8-2.0*	*2.0-2.2*	*2.2-2.4*	*2.4-2.6*	*2.6-2.8*	*2.8-3.0*	*3.0-3.2*	*3.2-3.4*
.0	5.45E 00	1.33E 01	2.91E 01	1.21E 02	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
.500	1.00E 00	1.00E 00	1.00E 00	1.00E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.00	5.51E-01	8.15E-02	2.02E-01	2.08E-01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.50	3.71E-01	3.64E-02	1.08E-01	8.70E-02	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.00	1.96E-01	1.67E-02	6.36E-02	3.62E-02	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.50	7.44E-02	6.56E-03	2.70E-02	1.32E-02	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.00	2.86E-02	2.42E-03	8.32E-03	4.17E-03	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.00	1.23E-03	2.42E-05	8.55E-05	7.21E-05	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NORMFLUX=	1.66E 06	3.16E 07	6.24E 07	1.08E 07	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ENERGY LEVELS >(MEV)	L - BANDS (MAGNETIC SHELL PARAMETER IN EARTH RADII) L - BANDS											
	3.4-3.6	*3.6-3.8*	*3.8-4.0*	*4.0-4.2*	*4.2-4.4*	*4.4-4.6*	*4.6-4.8*	*4.8-5.0*	*5.0-5.2*	*5.2-5.4*	*5.4-5.6*	*5.6-5.8*
.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
.500	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.50	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.50	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NORMFLUX=	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ENERGY LEVELS >(MEV)	L - BANDS (MAGNETIC SHELL PARAMETER IN EARTH RADII) L - BANDS											
	5.8-6.0	*6.0-6.2*	*6.2-6.4*	*6.4-6.6*	*6.6-6.8*	*6.8-7.0*	*7.0-7.2*	*7.2-7.4*	*7.4-7.6*	*7.6-7.8*	*7.8-8.0*	*8.0-OVR*
.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
.500	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.50	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.50	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NORMFLUX=	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Table 18

 ** ORBITAL FLUX STUDY WITH COMPOSITE PARTICLE ENVIRONMENTS: VETTES AP5, AP6, AP7; AE4, AE5, FOR SOLAR MAXIMUM *** UNIFLX OF 1973 **
 ** ELECTRON FLUXES EXPONENTIALLY DECAYED TO 1970. 0 WITH LIFETIMES: E.G. STASSINOPOLIOSEP, VERZARIU ** CUTOFF TIMES: **
 ** MAGNETIC COORDINATES B AND L COMPUTED BY INVARA OF 1972 WITH ALLMAG, MODEL 4: CAINESWENEY 120-TERM POGO 8/69 * TIME= 1974.0 **
 ** VEHICLE : SATS ** INCLINATION= 60DEG ** PERIGEE= 400KM ** APOGEE= 400KM ** B/L ORBIT TAPE: TD6794 ** PERIOD= 1.543 **

***** LOW ENERGY PROTONS *****
 ** SPECTRAL DISTRIBUTION : NORMALIZED BY FLUX OF ENERGY GREATER THAN .100 MEV **

ENERGY LEVELS >(MEV)	L - BANDS (MAGNETIC SHELL PARAMETER IN EARTH RADII) L - BANDS											
	1.0-1.2	*1.2-1.4*	*1.4-1.6*	*1.6-1.8*	*1.8-2.0*	*2.0-2.2*	*2.2-2.4*	*2.4-2.6*	*2.6-2.8*	*2.8-3.0*	*3.0-3.2*	*3.2-3.4*
.100	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00
.500	8.61E-01	8.37E-01	8.36E-01	8.35E-01	8.44E-01	6.74E-01	4.20E-01	3.97E-01	4.20E-01	3.76E-01	3.50E-01	3.29E-01
.900	7.42E-01	7.04E-01	7.09E-01	7.07E-01	7.20E-01	5.15E-01	2.17E-01	1.86E-01	1.87E-01	1.42E-01	1.23E-01	1.09E-01
1.10	6.89E-01	6.50E-01	6.65E-01	6.62E-01	6.72E-01	4.77E-01	1.97E-01	1.56E-01	1.35E-01	8.72E-02	7.31E-02	6.39E-02
1.50	5.97E-01	5.56E-01	5.86E-01	5.80E-01	5.88E-01	4.09E-01	1.64E-01	1.10E-01	7.05E-02	3.30E-02	2.59E-02	2.18E-02
2.00	5.02E-01	4.59E-01	5.00E-01	4.94E-01	4.97E-01	3.38E-01	1.33E-01	7.37E-02	3.21E-02	9.84E-03	7.07E-03	5.69E-03
2.50	4.24E-01	3.80E-01	4.28E-01	4.22E-01	4.22E-01	2.81E-01	1.10E-01	5.01E-02	1.49E-02	2.94E-03	1.93E-03	1.49E-03
3.00	3.61E-01	3.16E-01	3.67E-01	3.62E-01	3.59E-01	2.33E-01	9.12E-02	3.45E-02	7.03E-03	8.76E-04	5.29E-04	3.88E-04
3.50	3.10E-01	2.64E-01	3.15E-01	3.10E-01	3.05E-01	1.94E-01	7.61E-02	2.40E-02	3.36E-03	2.62E-04	1.45E-04	1.00E-04
NORMFLUX=	5.68E 05	4.64E 06	4.68E 06	5.74E 06	7.64E 06	1.52E 07	8.37E 06	3.42E 07	4.21E 07	1.70E 07	2.88E 07	4.05E 07

ENERGY LEVELS >(MEV)	L - BANDS (MAGNETIC SHELL PARAMETER IN EARTH RADII) L - BANDS											
	3.4-3.6	*3.6-3.8*	*3.8-4.0*	*4.0-4.2*	*4.2-4.4*	*4.4-4.6*	*4.6-4.8*	*4.8-5.0*	*5.0-5.2*	*5.2-5.4*	*5.4-5.6*	*5.6-5.8*
.100	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00
.500	2.82E-01	2.98E-01	1.21E-01	2.85E-02	1.16E-02	5.69E-03	5.24E-03	4.31E-03	3.40E-03	3.55E-03	9.61E-03	7.69E-01
.900	7.93E-02	4.34E-02	1.59E-02	8.14E-04	1.41E-04	3.23E-05	2.75E-05	1.68E-05	1.79E-05	1.20E-05	0.0	0.0
1.10	4.21E-02	1.98E-02	5.94E-03	1.37E-04	1.53E-05	2.44E-06	0.0	0.0	0.0	0.0	0.0	0.0
1.50	1.18E-02	4.15E-03	8.63E-04	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.00	2.43E-03	5.90E-04	8.15E-05	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.50	4.98E-04	8.44E-05	6.14E-06	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.00	1.02E-04	9.03E-06	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.50	1.96E-05	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NORMFLUX=	1.44E 07	1.95E 07	3.51E 07	1.52E 07	4.88E 07	3.32E 07	2.95E 07	4.34E 07	5.14E 07	1.91E 07	1.64E 05	9.39E 01

ENERGY LEVELS >(MEV)	L - BANDS (MAGNETIC SHELL PARAMETER IN EARTH RADII) L - BANDS											
	5.8-6.0	*6.0-6.2*	*6.2-6.4*	*6.4-6.6*	*6.6-6.8*	*6.8-7.0*	*7.0-7.2*	*7.2-7.4*	*7.4-7.6*	*7.6-7.8*	*7.8-8.0*	*8.0-OVR*
.100	1.00E 00	0.0	1.00E 00	1.00E 00	1.00E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0
.500	3.44E-03	0.0	5.84E-02	4.31E-03	5.60E-01	0.0	0.0	0.0	0.0	0.0	0.0	0.0
.900	1.09E-05	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.50	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.50	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.50	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NORMFLUX=	1.40E 07	0.0	7.56E 03	6.42E 05	1.61E 02	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Table 19

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*****
** ORBITAL FLUX STUDY WITH COMPOSITE PARTICLE ENVIRONMENTS: VETTES AP6, AP6, AP7; AE4, AFS, FOR SOLAR MAXIMUM *** UNIFLX OF 1973 **
** ELECTRON FLUXES EXPONENTIALLY DECAYED TO 1970. 0-WITH-LIFETIMES: E+G STASSINPOULGSEP.VERZARIU ** CUTOFF TIMES:
** MAGNETIC COORDINATES B AND L COMPUTED BY INVARA OF 1972 WITH ALLMAG, MODEL 4: CAINSWEENEY 120-TERM POGO 8/69 * TIME= 1974.0 **
** VEHICLE : SATS *** INCLINATION= 60DEG *** PERIGEE= 400KM *** APOGEE= 400KM ** B/L ORBIT TAPE: TD6794 ** PERIOD= 1.543
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***** HIGH-ENERGY PROTONS *****
** SPECTRAL DISTRIBUTION : NORMALIZED BY FLUX OF ENERGY GREATER THAN 5.00 MEV **
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ENERGY LEVELS	L - BANDS (MAGNETIC SHELL PARAMETER IN EARTH RADII) L - BANDS											
>(MEV)	*1.0-1.2*	*1.2-1.4*	*1.4-1.6*	*1.6-1.8*	*1.8-2.0*	*2.0-2.2*	*2.2-2.4*	*2.4-2.6*	*2.6-2.8*	*2.8-3.0*	*3.0-3.2*	*3.2-3.4*
3.00	1.48E 00	1.57E 00	1.54E 00	1.69E 00	1.92E 00	2.19E 00	2.28E 00	3.74E 00	9.20E 00	2.48E 02	2.54E 02	2.62E 02
5.00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	0.0	0.0	0.0
10.0	7.85E-01	7.69E-01	6.48E-01	4.35E-01	2.63E-01	1.81E-01	1.47E-01	9.56E-02	5.12E-02	0.0	0.0	0.0
15.0	6.73E-01	6.45E-01	4.89E-01	2.68E-01	1.13E-01	6.26E-02	4.37E-02	2.22E-02	6.74E-03	0.0	0.0	0.0
20.0	6.42E-01	5.88E-01	4.27E-01	2.04E-01	7.76E-02	3.51E-02	1.29E-02	5.05E-03	0.0	0.0	0.0	0.0
25.0	6.29E-01	5.51E-01	3.87E-01	1.73E-01	6.02E-02	2.27E-02	3.81E-03	7.89E-04	0.0	0.0	0.0	0.0
30.0	6.17E-01	5.17E-01	3.51E-01	1.46E-01	4.68E-02	1.48E-02	1.04E-03	0.0	0.0	0.0	0.0	0.0
60.0	5.60E-01	4.12E-01	2.41E-01	7.57E-02	1.74E-02	2.93E-03	0.0	0.0	0.0	0.0	0.0	0.0
100.	3.89E-01	2.23E-01	1.03E-01	2.48E-02	3.90E-03	2.77E-04	0.0	0.0	0.0	0.0	0.0	0.0
NORMFLUX=	1.39E 05	9.34E 05	1.12E 06	1.23E 06	1.43E 06	1.61E 06	3.35E 05	3.15E 05	3.22E 04	0.0	0.0	0.0

[illegible][illegible]

Table 20

 ** ORBITAL FLUX STUDY WITH COMPOSITE PARTICLE ENVIRONMENTS: VETTES APS, AP6, AP7; AE4, AF5, FOR SOLAR MAXIMUM *** UNIFLX OF 1973 **
 ** ELECTRON FLUXES EXPONENTIALLY DECAVED TO 1970-0 WITH LIFETIMES: E.G. STASSINGPOULOSGP, VERZARIU *** CUTOFF TIMES:
 ** MAGNETIC COORDINATES B AND L COMPUTED BY INVARA OF 1972 WITH ALLMAG, MODEL 4: CAINE/SWEENEY 120-TERM POGO 8/69 * TIME= 1974.0 **
 ** VEHICLE: SATS ** INCLINATION= 60DEG ** PERIGEE= 400KM ** APOGEE= 400KM ** B/L ORBIT TAPE: TD6794 ** PERIOD= 1.543 **

 ***** ELECTRONS *****
 ** SPECTRAL DISTRIBUTION : NORMALIZED BY FLUX OF ENERGY GREATER THAN .500 MEV **

ENERGY LEVELS >(MEV)	L - BANDS (MAGNETIC SHELL PARAMETER IN EARTH RADII) L - BANDS											
	1.0-1.2	*1.2-1.4*	*1.4-1.6*	*1.6-1.8*	*1.8-2.0*	*2.0-2.2*	*2.2-2.4*	*2.4-2.6*	*2.6-2.8*	*2.8-3.0*	*3.0-3.2*	*3.2-3.4*
.0	4.20E 00	1.30E 01	3.48E 01	1.28E 02	2.03E 02	3.93E 02	6.61E 02	4.66E 02	5.82E 01	1.88E 01	1.25E 01	1.29E 01
.500	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00
1.00	6.06E-01	9.04E-02	2.17E-01	2.07E-01	6.66E-02	4.24E-02	4.80E-02	7.53E-02	1.96E-01	3.42E-01	3.67E-01	3.91E-01
1.50	4.34E-01	3.97E-02	1.17E-01	8.56E-02	1.61E-02	6.68E-03	6.77E-03	1.49E-02	7.25E-02	1.72E-01	1.80E-01	1.93E-01
2.00	2.53E-01	1.95E-02	6.70E-02	3.50E-02	4.60E-03	1.63E-03	1.16E-03	3.23E-03	2.91E-02	8.65E-02	8.82E-02	9.57E-02
2.50	1.11E-01	8.22E-03	2.65E-02	1.24E-02	1.22E-03	3.17E-04	0.0	1.12E-04	6.75E-03	3.98E-02	3.82E-02	4.15E-02
3.00	4.75E-02	3.15E-03	7.99E-03	3.82E-03	2.71E-04	0.0	0.0	0.0	0.0	1.42E-02	1.42E-02	1.52E-02
4.00	1.97E-03	2.81E-05	9.18E-05	7.18E-05	0.0	0.0	0.0	0.0	0.0	3.54E-04	3.90E-04	4.20E-04
5.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

NORMFLUX= 4.63E 05 2.81E 07 6.69E 07 2.22E 07 1.12E 07 5.32E 06 7.68E 05 7.24E 05 1.87E 05 4.74E 06 4.16E 07 1.46E 08

ENERGY LEVELS >(MEV)	L - BANDS (MAGNETIC SHELL PARAMETER IN EARTH RADII) L - BANDS											
	3.4-3.6	*3.6-3.8*	*3.8-4.0*	*4.0-4.2*	*4.2-4.4*	*4.4-4.6*	*4.6-4.8*	*4.8-5.0*	*5.0-5.2*	*5.2-5.4*	*5.4-5.6*	*5.6-5.8*
.0	1.46E 01	1.19E 01	8.44E 00	6.83E 00	6.69E 00	6.66E 00	6.83E 00	7.16E 00	7.42E 00	7.50E 00	7.63E 00	7.56E 00
.500	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00
1.00	3.96E-01	3.83E-01	3.64E-01	3.57E-01	3.58E-01	3.55E-01	3.49E-01	3.38E-01	3.29E-01	3.25E-01	3.18E-01	2.79E-01
1.50	1.98E-01	1.92E-01	1.68E-01	1.50E-01	1.43E-01	1.34E-01	1.29E-01	1.22E-01	1.14E-01	1.08E-01	1.02E-01	8.54E-02
2.00	9.92E-02	9.58E-02	7.78E-02	6.27E-02	5.71E-02	5.04E-02	4.79E-02	4.41E-02	3.94E-02	3.62E-02	3.25E-02	2.62E-02
2.50	4.53E-02	4.80E-02	3.81E-02	2.77E-02	2.41E-02	2.01E-02	1.82E-02	1.56E-02	1.28E-02	1.11E-02	9.22E-03	7.18E-03
3.00	1.78E-02	2.04E-02	1.73E-02	1.20E-02	9.64E-03	7.24E-03	6.06E-03	4.52E-03	3.43E-03	2.85E-03	2.27E-03	1.81E-03
4.00	5.40E-04	6.83E-04	5.82E-04	3.70E-04	2.74E-04	1.85E-04	1.51E-04	1.10E-04	7.83E-05	6.28E-05	4.81E-05	1.11E-05
5.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

NORMFLUX= 5.85E 07 1.31E 08 1.32E 08 7.91E 07 8.63E 07 9.54E 07 4.97E 07 4.22E 07 6.06E 07 1.69E 07 1.21E 07 6.04E 06

ENERGY LEVELS >(MEV)	L - BANDS (MAGNETIC SHELL PARAMETER IN EARTH RADII) L - BANDS											
	5.8-6.0	*6.0-6.2*	*6.2-6.4*	*6.4-6.6*	*6.6-6.8*	*6.8-7.0*	*7.0-7.2*	*7.2-7.4*	*7.4-7.6*	*7.6-7.8*	*7.8-8.0*	*8.0-OVR*
.0	7.52E 00	8.37E 00	9.74E 00	1.16E 01	1.33E 01	1.64E 01	1.99E 01	2.96E 01	3.82E 01	7.46E 01	1.14E 02	3.15E 03
.500	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00
1.00	2.59E-01	2.41E-01	2.38E-01	2.34E-01	2.09E-01	1.69E-01	1.48E-01	1.27E-01	1.17E-01	9.78E-02	9.05E-02	5.73E-02
1.50	7.75E-02	6.87E-02	6.64E-02	6.11E-02	5.12E-02	3.78E-02	3.16E-02	2.58E-02	2.33E-02	1.81E-02	1.68E-02	5.93E-03
2.00	2.32E-02	1.96E-02	1.79E-02	1.60E-02	1.26E-02	8.49E-03	6.75E-03	4.26E-03	4.65E-03	3.35E-03	3.13E-03	7.66E-04
2.50	6.28E-03	5.07E-03	4.43E-03	3.75E-03	2.82E-03	1.82E-03	1.41E-03	1.06E-03	9.11E-04	1.49E-04	0.0	0.0
3.00	1.59E-03	1.20E-03	9.53E-04	7.38E-04	5.45E-04	3.69E-04	2.80E-04	2.19E-04	0.0	0.0	0.0	0.0
4.00	1.42E-05	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

NORMFLUX= 1.24E 07 2.92E 06 7.35E 06 4.34E 06 2.20E 06 1.09E 06 2.25E 06 2.96E 05 6.07E 05 4.61E 05 7.31E 04 1.28E 05

Table 2/

 ** ORBITAL FLUX STUDY WITH COMPOSITE PARTICLE ENVIRONMENTS: VETTES AP5, AP6, AP7; AE4, AE5, FOR SOLAR MAXIMUM *** UNIFLK OF 1973 **
 ** ELECTRON FLUXES EXPONENTIALLY DECAYED TO 1970-0 WITH LIFETIMES: E.G. STASSINGPOULOS & P. VERZARIU ** CUTOFF TIMES: **
 ** MAGNETIC COORDINATES B AND L COMPUTED BY INVVAR OF 1972 WITH ALLMAG. MODEL 4: CAINE & SWEENEY 120-TERM POGO 8/69 * TIME= 1974.0 **
 ** VEHICLE : SATS ** INCLINATION= 90DEG ** PERIGEE= 400KM ** APOGEE= 400KM ** B/L ORBIT TAPE= TD6794 ** PERIGEE= 1,543 **

 ** SPECTRAL DISTRIBUTION : NORMALIZED BY FLUX OF ENERGY GREATER THAN .100 MEV **

ENERGY LEVELS >(MEV)	L - BANDS (MAGNETIC SHELL PARAMETER IN EARTH RADII) L - BANDS											
	1.0-1.2	*1.2-1.4*	*1.4-1.6*	*1.6-1.8*	*1.8-2.0*	*2.0-2.2*	*2.2-2.4*	*2.4-2.6*	*2.6-2.8*	*2.8-3.0*	*3.0-3.2*	*3.2-3.4*
.100	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00
.500	8.56E-01	8.37E-01	8.35E-01	8.35E-01	8.46E-01	8.18E-01	4.32E-01	3.87E-01	4.15E-01	3.85E-01	3.61E-01	3.24E-01
.900	7.31E-01	7.04E-01	7.09E-01	7.09E-01	7.24E-01	6.81E-01	2.29E-01	1.80E-01	1.82E-01	1.48E-01	1.30E-01	1.07E-01
1.10	6.75E-01	6.50E-01	6.65E-01	6.66E-01	6.77E-01	6.24E-01	2.13E-01	1.52E-01	1.28E-01	9.11E-02	7.73E-02	6.21E-02
1.50	5.79E-01	5.55E-01	5.87E-01	5.88E-01	5.94E-01	5.25E-01	1.83E-01	1.11E-01	6.45E-02	3.47E-02	2.75E-02	2.11E-02
2.00	4.83E-01	4.57E-01	5.02E-01	5.05E-01	5.05E-01	4.24E-01	1.54E-01	7.58E-02	2.76E-02	1.04E-02	7.55E-03	5.47E-03
2.50	4.06E-01	3.78E-01	4.30E-01	4.35E-01	4.30E-01	3.43E-01	1.29E-01	5.27E-02	1.19E-02	3.12E-03	2.07E-03	1.43E-03
3.00	3.44E-01	3.13E-01	3.70E-01	3.75E-01	3.66E-01	2.77E-01	1.10E-01	3.69E-02	5.23E-03	9.37E-04	5.70E-04	3.72E-04
3.50	2.92E-01	2.60E-01	3.18E-01	3.24E-01	3.12E-01	2.25E-01	9.33E-02	2.61E-02	2.32E-03	2.78E-04	1.54E-04	9.34E-05
NORMFLUX=	6.73E 05	3.43E 06	3.88E 06	4.92E 06	6.17E 06	6.38E 06	9.11E 06	1.85E 07	2.31E 07	8.45E 06	1.93E 07	1.37E 07

ENERGY LEVELS >(MEV)	L - BANDS (MAGNETIC SHELL PARAMETER IN EARTH RADII) L - BANDS											
	3.4-3.6	*3.6-3.8*	*3.8-4.0*	*4.0-4.2*	*4.2-4.4*	*4.4-4.6*	*4.6-4.8*	*4.8-5.0*	*5.0-5.2*	*5.2-5.4*	*5.4-5.6*	*5.6-5.8*
.100	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00
.500	3.07E-01	2.06E-01	1.59E-01	5.92E-02	7.41E-03	5.89E-03	5.87E-03	4.13E-03	3.23E-03	3.50E-03	3.47E-03	4.05E-03
.900	9.51E-02	4.29E-02	2.55E-02	3.50E-03	5.49E-05	3.51E-05	3.39E-05	1.70E-05	9.59E-06	1.15E-05	1.15E-05	0.0
1.10	5.32E-02	1.97E-02	1.02E-02	8.51E-04	4.72E-06	1.91E-06	0.0	0.0	0.0	0.0	0.0	0.0
1.50	1.67E-02	4.22E-03	1.66E-03	5.04E-05	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.00	3.91E-03	6.32E-04	1.74E-04	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.50	9.18E-04	9.82E-05	1.56E-05	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.00	2.16E-04	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.50	5.08E-05	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NORMFLUX=	1.08E 07	4.15E 06	2.92E 07	2.08E 06	5.06E 07	1.57E 08	2.25E 06	1.14E 07	5.83E 07	6.94E 07	3.73E 07	3.12E 06

ENERGY LEVELS >(MEV)	L - BANDS (MAGNETIC SHELL PARAMETER IN EARTH RADII) L - BANDS											
	5.8-6.0	*6.0-6.2*	*6.2-6.4*	*6.4-6.6*	*6.6-6.8*	*6.8-7.0*	*7.0-7.2*	*7.2-7.4*	*7.4-7.6*	*7.6-7.8*	*7.8-8.0*	*8.0-OVR*
.100	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	0.0	0.0	0.0	0.0	0.0	0.0
.500	3.57E-03	3.43E-03	3.38E-03	3.37E-03	6.07E-01	4.52E-01	0.0	0.0	0.0	0.0	0.0	0.0
.900	0.0	1.09E-05	1.10E-05	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.50	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.50	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.50	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NORMFLUX=	2.39E 06	8.60E 06	2.06E 07	1.93E 06	1.40E 02	2.32E 02	0.0	0.0	0.0	0.0	0.0	0.0

Table 22

 ** ORBITAL FLUX STUDY WITH COMPOSITE PARTICLE ENVIRONMENTS: VETTES AP5, AP6, AP7; AE4, AES, FOR SOLAR MAXIMUM **** UNIFLX OF 1973 **
 ** ELECTRON FLUXES EXPONENTIALLY DECAYED TO 1970.0 WITH LIFETIMES: E.G. STASSINOPoulos & P. VERZARIU ** CUTOFF TIMES: **
 ** MAGNETIC COORDINATES B AND L COMPUTED BY INVARA OF 1972 WITH ALLMAG, MODEL 4: CAINE & SWENEY 120-TERM POGO 8/69 * TIME = 1974.0 **
 ** VEHICLE: SATS ** INCLINATION = 90 DEG ** PERIGEE = 400 KM ** APOGEE = 400 KM ** 8/L ORBIT TAPE: TD6794 ** PERIOD = 1.543 **

***** HIGH ENERGY PROTONS *****
 ** SPECTRAL DISTRIBUTION : NORMALIZED BY FLUX OF ENERGY GREATER THAN 5.00 MEV **

ENERGY LEVELS >(MEV)	L - BANDS (MAGNETIC SHELL PARAMETER IN EARTH RADII) L - BANDS											
	1.0-1.2	*1.2-1.4*	*1.4-1.6*	*1.6-1.8*	*1.8-2.0*	*2.0-2.2*	*2.2-2.4*	*2.4-2.6*	*2.6-2.8*	*2.8-3.0*	*3.0-3.2*	*3.2-3.4*
3.00	1.50E 00	1.58E 00	1.53E 00	1.69E 00	1.93E 00	2.33E 00	2.16E 00	3.61E 00	1.09E 01	1.32E 02	1.83E 02	8.50E 01
5.00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	0.0	0.0	0.0
10.0	7.68E-01	7.75E-01	6.58E-01	4.10E-01	2.55E-01	1.81E-01	1.51E-01	9.56E-02	2.96E-02	0.0	0.0	0.0
15.0	6.53E-01	6.49E-01	5.03E-01	2.39E-01	1.07E-01	6.16E-02	4.59E-02	2.17E-02	0.0	0.0	0.0	0.0
20.0	6.22E-01	5.93E-01	4.42E-01	1.88E-01	7.29E-02	3.54E-02	1.81E-02	5.00E-03	0.0	0.0	0.0	0.0
25.0	6.09E-01	5.55E-01	4.03E-01	1.59E-01	5.59E-02	2.33E-02	8.28E-03	4.30E-04	0.0	0.0	0.0	0.0
30.0	5.97E-01	5.20E-01	3.68E-01	1.34E-01	4.29E-02	1.55E-02	4.01E-03	0.0	0.0	0.0	0.0	0.0
50.0	5.61E-01	4.05E-01	2.62E-01	6.87E-02	1.52E-02	3.06E-03	3.15E-04	0.0	0.0	0.0	0.0	0.0
100.	3.67E-01	2.14E-01	1.16E-01	2.24E-02	3.32E-03	2.05E-04	0.0	0.0	0.0	0.0	0.0	0.0

NORMFLUX= 1.55E 05 6.79E 05 5.27E 05 1.09E 06 1.17E 06 7.60E 05 4.61E 05 1.89E 05 1.10E 04 0.0 0.0 0.0

ENERGY LEVELS >(MEV)	L - BANDS (MAGNETIC SHELL PARAMETER IN EARTH RADII) L - BANDS											
	3.4-3.6	*3.6-3.8*	*3.8-4.0*	*4.0-4.2*	*4.2-4.4*	*4.4-4.6*	*4.6-4.8*	*4.8-5.0*	*5.0-5.2*	*5.2-5.4*	*5.4-5.6*	*5.6-5.8*
3.00	3.87E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

NORMFLUX= 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0

ENERGY LEVELS >(MEV)	L - BANDS (MAGNETIC SHELL PARAMETER IN EARTH RADII) L - BANDS											
	5.8-6.0	*6.0-6.2*	*6.2-6.4*	*6.4-6.6*	*6.6-6.8*	*6.8-7.0*	*7.0-7.2*	*7.2-7.4*	*7.4-7.6*	*7.6-7.8*	*7.8-8.0*	*8.0-OVR*
3.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

NORMFLUX= 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0

 ** ORBITAL FLUX STUDY WITH COMPOSITE PARTICLE ENVIRONMENTS: VETTES APS, AP6, AP7; AE4, AE5, FOR SOLAR MAXIMUM **** UNIFLX OF 1973 **
 ** ELECTRON FLUXES EXPONENTIALLY DECAYED TO 1976, 0 WITH LIFETIMES: F.O.G. STASSINOPoulos & P. VERZARIU ** CUTOFF TIMES: **
 ** MAGNETIC COORDINATES R AND L COMPUTED BY INVARA OF 1972 WITH ALLMAG, MODEL 4: CAINE SWFENEY 120-TERM PDGO 8/69 * TIME= 1974.0 **
 ** VEHICLE : --- SATS ** INCLINATION= 90DEG ** PERIGEE= 400KM ** APOGEE= 400KM ** B/L ORBIT TAPE: YD6794 ** PERIOD= 1.543 **

 ***** ELECTRONS *****
 ** SPECTRAL DISTRIBUTION : NORMALIZED BY FLUX OF ENERGY GREATER THAN .500 MEV **

ENERGY LEVELS >(MEV)	L - BANDS (MAGNETIC SHELL PARAMETER IN EARTH RADII) L - BANDS											
	1.0-1.2	*1.2-1.4*	*1.4-1.6*	*1.6-1.8*	*1.8-2.0*	*2.0-2.2*	*2.2-2.4*	*2.4-2.6*	*2.6-2.8*	*2.8-3.0*	*3.0-3.2*	*3.2-3.4*
0	4.76E 00	1.32E 01	3.17E 01	1.30E 02	2.10E 02	3.70E 02	6.66E 02	3.56E 02	5.79E 01	1.90E 01	1.34E 01	1.41E 01
.500	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00
1.00	5.78E-01	9.14E-02	2.08E-01	1.98E-01	6.35E-02	4.38E-02	4.46E-02	7.44E-02	2.15E-01	3.45E-01	3.61E-01	3.95E-01
1.50	4.01E-01	4.09E-02	1.11E-01	8.29E-02	1.50E-02	6.98E-03	6.24E-03	1.42E-02	8.49E-02	1.76E-01	1.77E-01	1.96E-01
2.00	2.23E-01	1.96E-02	6.49E-02	3.42E-02	4.25E-03	1.73E-03	1.19E-03	2.81E-03	3.65E-02	8.97E-02	8.70E-02	9.73E-02
2.50	9.07E-02	8.43E-03	2.58E-02	1.19E-02	1.12E-03	3.54E-04	0.0	0.0	9.34E-03	4.12E-02	3.80E-02	4.28E-02
3.00	3.67E-02	3.23E-03	7.72E-03	3.59E-03	2.50E-04	0.0	0.0	0.0	0.0	1.41E-02	1.42E-02	1.57E-02
4.00	1.18E-03	2.49E-05	8.59E-05	6.55E-05	0.0	0.0	0.0	0.0	0.0	3.89E-04	3.88E-04	4.34E-04
5.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NORMFLUX=	5.54E 05	1.92E 07	6.11E 07	1.84E 07	8.88E 06	2.21E 06	1.14E 06	4.31E 05	9.26E 04	2.24E 06	2.39E 07	9.29E 07

ENERGY LEVELS >(MEV)	L - BANDS (MAGNETIC SHELL PARAMETER IN EARTH RADII) L - BANDS											
	3.4-3.6	*3.6-3.8*	*3.8-4.0*	*4.0-4.2*	*4.2-4.4*	*4.4-4.6*	*4.6-4.8*	*4.8-5.0*	*5.0-5.2*	*5.2-5.4*	*5.4-5.6*	*5.6-5.8*
0	1.51E 01	1.18E 01	9.02E 00	6.87E 00	6.64E 00	6.69E 00	6.87E 00	7.30E 00	7.42E 00	7.52E 00	7.67E 00	7.55E 00
.500	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00
1.00	3.97E-01	3.83E-01	3.66E-01	3.57E-01	3.58E-01	3.54E-01	3.47E-01	3.35E-01	3.29E-01	3.24E-01	3.08E-01	2.80E-01
1.50	1.99E-01	1.91E-01	1.73E-01	1.50E-01	1.41E-01	1.34E-01	1.28E-01	1.20E-01	1.14E-01	1.08E-01	9.70E-02	8.57E-02
2.00	9.94E-02	9.58E-02	8.15E-02	6.34E-02	5.55E-02	5.05E-02	4.73E-02	4.27E-02	3.93E-02	3.58E-02	3.05E-02	2.63E-02
2.50	4.63E-02	4.83E-02	4.09E-02	2.81E-02	2.32E-02	2.01E-02	1.77E-02	1.48E-02	1.27E-02	1.09E-02	8.56E-03	7.23E-03
3.00	1.75E-02	2.06E-02	1.83E-02	1.23E-02	9.02E-03	7.28E-03	5.64E-03	4.16E-03	3.41E-03	2.78E-03	2.10E-03	1.82E-03
4.00	5.20E-04	6.93E-04	6.20E-04	3.82E-04	2.51E-04	1.86E-04	1.43E-04	9.88E-05	7.76E-05	6.12E-05	4.10E-05	2.00E-05
5.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NORMFLUX=	6.48E 07	8.72E 07	1.21E 08	1.04E 08	7.30E 07	1.50E 08	5.02E 07	1.14E 07	4.24E 07	5.29E 07	4.47E 07	1.93E 07

ENERGY LEVELS >(MEV)	L - BANDS (MAGNETIC SHELL PARAMETER IN EARTH RADII) L - BANDS											
	5.8-6.0	*6.0-6.2*	*6.2-6.4*	*6.4-6.6*	*6.6-6.8*	*6.8-7.0*	*7.0-7.2*	*7.2-7.4*	*7.4-7.6*	*7.6-7.8*	*7.8-8.0*	*8.0-OVR*
0	7.48E 00	8.18E 00	9.74E 00	1.12E 01	1.39E 01	1.66E 01	2.13E 01	2.85E 01	3.98E 01	5.47E 01	1.28E 02	8.24E 03
.500	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00
1.00	2.47E-01	2.40E-01	2.36E-01	2.34E-01	1.99E-01	1.67E-01	1.44E-01	1.29E-01	1.16E-01	1.06E-01	8.75E-02	4.75E-02
1.50	7.30E-02	6.86E-02	6.45E-02	6.16E-02	4.78E-02	3.74E-02	3.05E-02	2.63E-02	2.29E-02	2.03E-02	1.59E-02	3.47E-03
2.00	2.16E-02	1.96E-02	1.76E-02	1.62E-02	1.15E-02	8.35E-03	6.44E-03	5.38E-03	4.53E-03	3.88E-03	2.89E-03	2.94E-04
2.50	6.89E-03	5.09E-03	4.32E-03	3.84E-03	2.58E-03	1.79E-03	1.33E-03	1.08E-03	8.09E-04	6.42E-04	0.0	0.0
3.00	1.49E-03	1.23E-03	9.31E-04	7.68E-04	4.97E-04	3.61E-04	2.63E-04	1.38E-04	0.0	0.0	0.0	0.0
4.00	0.0	7.29E-05	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NORMFLUX=	1.22E 07	9.97E 06	1.26E 07	4.90E 06	2.03E 06	5.56E 06	1.93E 06	2.58E 06	6.92E 05	8.50E 05	2.56E 05	2.34E 05

 ** ORBITAL FLUX STUDY WITH COMPOSITE PARTICLE ENVIRONMENTS: VETTES AP5, AP6, AP7; AE4, AES, FOR SOLAR MAXIMUM **** UNIFLX OF 1973 **
 ** ELECTRON FLUXES EXPONENTIALLY DECAYED TO 1970. 0 WITH LIFETIMES: F.G.STASSINOPOULOS6P.VERZARIU ** CUTOFF TIMES: **
 ** MAGNETIC COORDINATES B AND L COMPUTED BY INVARA OF 1972 WITH ALLMAC, MODEL 4: CAINE&SWEENEY 120-TERM POGO 8/69 * TIME= 1974.0 **
 ** VEHICLE : SATS ** INCLINATION= 0DEG ** PERIGEE= 600KM ** APOGEE= 600KM ** B/L ORBIT TAPE: TD75E4 ** PERIOD= 1.611 **

 ***** LOW ENERGY PROTONS *****
 ** SPECTRAL DISTRIBUTION : NORMALIZED BY FLUX OF ENERGY GREATER THAN .100 MEV **

ENERGY L - BANDS (MAGNETIC SHELL PARAMETER IN EARTH RADII) L - BANDS
 LFVFLS *1.0-1.2* *1.2-1.4* *1.4-1.6* *1.6-1.8* *1.8-2.0* *2.0-2.2* *2.2-2.4* *2.4-2.6* *2.6-2.8* *2.8-3.0* *3.0-3.2* *3.2-3.4*
 >(MEV)

.100	1.00E-00	1.00E-00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
.500	8.77E-01	8.47E-01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
.900	7.40E-01	6.43E-01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.10	6.52E-01	4.93E-01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.50	5.20E-01	2.89E-01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.00	4.07E-01	1.49E-01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.50	3.30E-01	7.74E-02	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.00	2.77E-01	4.04E-02	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.50	2.37E-01	2.13E-02	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

NCFMFLUX= 1.30E-06 1.01E-06 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0

ENERGY L - BANDS (MAGNETIC SHELL PARAMETER IN EARTH RADII) L - BANDS
 LFVFLS *3.4-3.6* *3.6-3.8* *3.8-4.0* *4.0-4.2* *4.2-4.4* *4.4-4.6* *4.6-4.8* *4.8-5.0* *5.0-5.2* *5.2-5.4* *5.4-5.6* *5.6-5.8*
 >(MEV)

.100	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
.500	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
.900	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.50	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.50	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.50	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

NCFMFLUX= 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0

ENERGY L - BANDS (MAGNETIC SHELL PARAMETER IN EARTH RADII) L - BANDS
 LEVELS *5.9-6.0* *6.0-6.2* *6.2-6.4* *6.4-6.6* *6.6-6.8* *6.8-7.0* *7.0-7.2* *7.2-7.4* *7.4-7.6* *7.6-7.8* *7.8-8.0* *8.0-OVR*
 >(MEV)

.100	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
.500	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
.900	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.50	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.50	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.50	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

NCFMFLUX= 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0

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***** HIGH ENERGY PROTONS *****
** SPECTRAL DISTRIBUTION : NORMALIZED BY FLUX OF ENERGY GREATER THAN 5.00 MEV **
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** ORBITAL FLUX STUDY WITH COMPOSITE PARTICLE ENVIRONMENTS: VETTES APS, AP6, AP7; AE4, AES, FOR SOLAR MAXIMUM **** UNIFLX OF 1973 **
** ELECTRON FLUXES EXPONENTIALLY DECAYED TO 1970.0 WITH LIFETIMES: E.G. STASSINOPOULOS & VERZARIU ** CUTOFF TIMES: **
** MAGNETIC COORDINATES B AND L COMPUTED BY INVARA OF 1972 WITH ALLMAG, MODEL 4: CAINESSWEENEY 120-TERM POGO 2/69 * TIME= 1974.0 **
** VEHICLE : SATS ** INCLINATION= 0DEG ** PERIGEE= 600KM ** APOGEE= 600KM ** B/L ORBIT TAPE: T07964 ** PERIOD= 1.611 **
*****
** ELECTRONS *****
** SPECTRAL DISTRIBUTION : NORMALIZED BY FLUX OF ENERGY GREATER THAN .500 MEV **
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** ORBITAL FLUX STUDY WITH COMPOSITE PARTICLE ENVIRONMENTS: VETTES APS, AP6, AP7; AE4, AE5, FOR SOLAR MAXIMUM *** UNIFLX-QF 1973 **  
** ELECTRON FLUXES EXPONENTIALLY DECAYED TO 1970-0 WITH LIFETIMES: F.G.STASSINOPOULOS&P.VERZARIU ** CUTOFF TIMES:  
** MAGNETIC COORDINATES B AND L COMPUTED BY INVARA OF 1972 WITH ALLMAG, MODEL 4: CAINE&SWEENEY 120-TERM POGO 8/69 * TIME= 1974.0 *  
** VEHICLE : SATS * INCLINATION= 30DEG * PERIGEE= 600KM ** APOGEE= 600KM ** B/L ORBIT TAPE: TD79&A ** PERIOD= 1.611 *  
*****  
***** LCW--ENERGY PROTONS-- *****  
** SPECTRAL DISTRIBUTION : NORMALIZED BY FLUX OF ENERGY GREATER THAN .100 MEV **  
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ENERGY LEVELS >(MEV)	L - BANDS (MAGNETIC SHELL PARAMETER IN EARTH RADII) L - BANDS											
	1.0-1.2	*1.2-1.4*	*1.4-1.6*	*1.6-1.8*	*1.8-2.0*	*2.0-2.2*	*2.2-2.4*	*2.4-2.6*	*2.6-2.8*	*2.8-3.0*	*3.0-3.2*	*3.2-3.4*
.100	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0
.500	8.63E-01	8.35E-01	8.35E-01	8.35E-01	8.35E-01	0.0	0.0	0.0	0.0	0.0	0.0	0.0
.900	7.36E-01	7.12E-01	7.15E-01	7.09E-01	7.03E-01	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.10	6.94E-01	6.74E-01	6.81E-01	6.67E-01	6.52E-01	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.50	6.20E-01	6.04E-01	6.18E-01	5.91E-01	5.62E-01	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.00	5.42E-01	5.28E-01	5.48E-01	5.09E-01	4.69E-01	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.50	4.75E-01	4.62E-01	4.87E-01	4.39E-01	3.93F-01	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.00	4.18E-01	4.06E-01	4.33E-01	3.79E-01	3.30F-01	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.50	3.69E-01	3.57E-01	3.85E-01	3.27E-01	2.78E-01	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NORMFLUX=	5.00E 06	3.37E 07	1.62E 07	1.35E 07	1.81E 06	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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Table 28

 ** CRIPITAL FLUX STUDY WITH COMPOSITE PARTICLE ENVIRONMENTS: VETTES AP5, AP6, AP7; AE4, AE5, FOR SOLAR MAXIMUM **** UNIFLX OF 1973 *
 ** ELECTRON FLUXES EXPONENTIALLY DECAYED TO 1970. 0 WITH LIFETIMES: E.G. STASSINOPoulos & VERZARIU ** CUTOFF TIMES: *
 ** MAGNETIC COORDINATES B AND L COMPUTED BY INVAPA OF 1972 WITH ALLMAG. MODEL 4: CAINESWENEY 120-TERM POGO 2/69 * TIME= 1974.0 *
 ** VEHICLE: SATS ** INCLINATION= 30DEG ** PERIGEE= 600KM ** APOGEE= 600KM ** B/L ORBIT TAPE: 107964 ** PERIOD= 1.611 hr

***** HIGH ENERGY PROTONS *****
 ** SPECTRAL DISTRIBUTION : NORMALIZED BY FLUX OF ENERGY GREATER THAN 5.00 MEV **

ENERGY L - BANDS (MAGNETIC SHELL PARAMETER IN EARTH RADII) L - BANDS
 LEVELS *1.0-1.2* *1.2-1.4* *1.4-1.6* *1.6-1.8* *1.8-2.0* *2.0-2.2* *2.2-2.4* *2.4-2.6* *2.6-2.8* *2.8-3.0* *3.0-3.2* *3.2-3.4*
 >(MEV)

3.00	1.42E 00	1.44E 00	1.44E 00	1.67E 00	1.87E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5.00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10.0	7.20E-01	6.43E-01	6.09E-01	4.27E-01	3.20E-01	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15.0	5.85E-01	5.36E-01	4.44E-01	2.51E-01	1.52E-01	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20.0	5.49E-01	4.90E-01	3.54E-01	1.98E-01	1.11E-01	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25.0	5.33E-01	4.66E-01	3.67E-01	1.68E-01	9.10E-02	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30.0	5.18E-01	4.43E-01	3.42E-01	1.42E-01	7.45E-02	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50.0	4.62E-01	3.64E-01	2.43E-01	7.41E-02	3.37E-02	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100.	3.35E-01	2.24E-01	1.39E-01	2.47E-02	8.42E-03	0.0	0.0	0.0	0.0	0.0	0.0	0.0

NCMFLEX= 1.48E 06 9.50E 06 4.88E 06 3.06E 06 3.19E 05 0.0 0.0 0.0 0.0 0.0 0.0 0.0

ENERGY L - BANDS (MAGNETIC SHELL PARAMETER IN EARTH RADII) L - BANDS
 LEVELS *3.4-3.6* *3.6-3.8* *3.8-4.0* *4.0-4.2* *4.2-4.4* *4.4-4.6* *4.6-4.8* *4.8-5.0* *5.0-5.2* *5.2-5.4* *5.4-5.6* *5.6-5.8*
 >(MEV)

3.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

NCMFLEX= 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0

ENERGY L - BANDS (MAGNETIC SHELL PARAMETER IN EARTH RADII) L - BANDS
 LEVELS *5.8-6.0* *6.0-6.2* *6.2-6.4* *6.4-6.6* *6.6-6.8* *6.8-7.0* *7.0-7.2* *7.2-7.4* *7.4-7.6* *7.6-7.8* *7.8-8.0* *8.0-OVR*
 >(MEV)

3.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

NCMFLEX= 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0

Table 29

 ** ORBITAL FLUX STUDY WITH COMPOSITE PARTICLE ENVIRONMENTS: VETTES AP5, AP6, AP7; AE4, AE5, FOR SOLAR MAXIMUM *** UNIFLX OF 1973 **
 ** ELECTRON FLUXES EXPONENTIALLY DECAYED TO 1970. 0 WITH LIFETIMES: E.G. STASSINOPOULOS & VERZARU ** CUTOFF TIMES: **
 ** MAGNETIC COORDINATES B AND L COMPUTED BY INVARA OF 1972 WITH ALLMAG, MODEL 4: CAINE SWEENEY 120-TERM POGO 8/69 * TIME = 1974.0 **
 ** VEHICLE : SATS ** INCLINATION = 30DEG ** PERIGEE = 600KM ** APOGEE = 600KM ** B/L ORBIT TYPE: TD7964 ** PERIOD = 1.611 **

 ** SPECTRAL DISTRIBUTION : NORMALIZED BY FLUX OF ENERGY GREATER THAN .500 MEV **

ENERGY L - BANDS (MAGNETIC SHELL PARAMETER IN EARTH RADII) L - BANDS
 LEVELS *1.0-1.2* *1.2-1.4* *1.4-1.6* *1.6-1.8* *1.8-2.0* *2.0-2.2* *2.2-2.4* *2.4-2.6* *2.6-2.8* *2.8-3.0* *3.0-3.2* *3.2-3.4*
 >(MEV)

.0	5.20E 00	1.24E 01	2.10E 01	1.24E 02	1.83E 02	0.0	0.0	0.0	0.0	0.0	0.0	0.0
.500	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.00	5.43E-01	6.16E-02	1.89E-01	2.09E-01	8.95E-02	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.50	3.59E-01	3.73E-02	9.79E-02	8.98E-02	2.42E-02	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.00	1.82E-01	1.67E-02	5.56E-02	3.73E-02	7.30E-03	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.50	6.26E-02	6.18E-03	2.45E-02	1.30E-02	2.13E-03	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.00	2.03E-02	2.15E-03	7.65E-03	3.90E-03	5.32E-04	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.00	2.49E-04	2.19E-05	7.51E-05	7.23E-05	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

NCFMFLUX= 1.19E 07 3.98E 08 4.16E 08 5.68E 07 3.31E 06 0.0 0.0 0.0 0.0 0.0 0.0 0.0

ENERGY L - BANDS (MAGNETIC SHELL PARAMETER IN EARTH RADII) L - BANDS
 LEVELS *3.4-3.6* *3.6-3.8* *3.8-4.0* *4.0-4.2* *4.2-4.4* *4.4-4.6* *4.6-4.8* *4.8-5.0* *5.0-5.2* *5.2-5.4* *5.4-5.6* *5.6-5.8*
 >(MEV)

.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
.500	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.50	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.50	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

NCFMFLUX= 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0

ENERGY L - BANDS (MAGNETIC SHELL PARAMETER IN EARTH RADII) L - BANDS
 LEVELS *5.8-6.0* *6.0-6.2* *6.2-6.4* *6.4-6.6* *6.6-6.8* *6.8-7.0* *7.0-7.2* *7.2-7.4* *7.4-7.6* *7.6-7.8* *7.8-8.0* *8.0-8.2*
 >(MEV)

.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
.500	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.50	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.50	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

NCFMFLUX= 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0

Table 30

 ** ORBITAL FLUX STUDY WITH COMPOSITE PARTICLE ENVIRONMENTS: VETTES APS, AP6, AP7; AE4, AES, FOR SOLAR MAXIMUM **** UNIFLX OF 1973 **
 ** ELECTRON FLUXES EXPONENTIALLY DECAYED TO 1970. 0 WITH LIFETIMES: E.G. STASSINGPOULOS P. VERZARIU ** CUTOFF TIMES: **
 ** MAGNETIC COORDINATES B AND L COMPUTED BY INVARA OF 1972 WITH ALLMAG, MODEL 4: CAINE SWEENEY 120-TERM PDGO 8/69 * TIME= 1974.0 **
 ** VEHICLE 1 SATS ** INCLINATION= 60DEG ** PERIGEE= 600KM ** APOGEE= 600KM ** B/L ORBIT TAPE: TD7564 ** PERIOD= 1.611 **

 ** SPECTRAL DISTRIBUTION: NORMALIZED BY FLUX OF ENERGY GREATER THAN .100 MEV **

ENERGY LEVELS >(MEV)	L - BANDS (MAGNETIC SHELL PARAMETER IN EARTH RADII) L - BANDS											
	1.0-1.2	*1.2-1.4*	*1.4-1.6*	*1.6-1.8*	*1.8-2.0*	*2.0-2.2*	*2.2-2.4*	*2.4-2.6*	*2.6-2.8*	*2.8-3.0*	*3.0-3.2*	*3.2-3.4*
.100	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00
.500	8.59E-01	8.35E-01	8.35E-01	8.35E-01	8.47E-01	7.50E-01	4.45E-01	3.92E-01	4.21E-01	3.74E-01	3.47E-01	3.30E-01
.900	7.44E-01	7.12E-01	7.15E-01	7.14E-01	7.29E-01	6.04E-01	2.42E-01	1.87E-01	1.93E-01	1.41E-01	1.20E-01	1.10E-01
1.10	7.00E-01	6.74E-01	6.83E-01	6.79E-01	6.88E-01	5.58E-01	2.23E-01	1.63E-01	1.45E-01	8.71E-02	7.09E-02	6.39E-02
1.50	6.23E-01	6.04E-01	6.22E-01	6.16E-01	6.15E-01	4.77E-01	1.91E-01	1.22E-01	8.28E-02	3.33E-02	2.46E-02	2.16E-02
2.00	5.43E-01	5.28E-01	5.55E-01	5.46E-01	5.34E-01	3.93E-01	1.57E-01	8.61E-02	4.17E-02	1.00E-02	6.55E-03	5.60E-03
2.50	4.75E-01	4.63E-01	4.56E-01	4.84E-01	4.66E-01	3.23E-01	1.30E-01	6.06E-02	2.13E-02	3.02E-03	1.74E-03	1.45E-03
3.00	4.18E-01	4.07E-01	4.43E-01	4.30E-01	4.86E-01	2.66E-01	1.08E-01	4.27E-02	1.11E-02	9.14E-04	4.65E-04	3.75E-04
3.50	3.69E-01	3.58E-01	3.57E-01	3.82E-01	3.55E-01	2.20E-01	8.55E-02	3.01E-02	5.88E-03	2.77E-04	1.24E-04	9.74E-05

NORMFLUX= 1.97E 06 1.52E 07 1.26E 07 1.38E 07 1.79E 07 1.92E 07 2.26E 07 6.48E 07 5.06E 07 6.28E 07 6.60E 07 3.38E 07

ENERGY LEVELS >(MEV)	L - BANDS (MAGNETIC SHELL PARAMETER IN EARTH RADII) L - BANDS											
	3.4-3.6	*3.6-3.8*	*3.8-4.0*	*4.0-4.2*	*4.2-4.4*	*4.4-4.6*	*4.6-4.8*	*4.8-5.0*	*5.0-5.2*	*5.2-5.4*	*5.4-5.6*	*5.6-5.8*
.100	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00
.500	2.85E-01	2.13E-01	1.60E-01	2.22E-02	8.90E-03	6.41E-03	4.86E-03	3.86E-03	3.76E-03	3.49E-03	3.52E-03	3.45E-03
.900	8.21E-02	4.58E-02	2.57E-02	5.63E-04	8.07E-05	3.73E-05	2.32E-05	1.50E-05	1.11E-05	1.22E-05	1.15E-05	1.08E-05
1.10	4.44E-02	2.13E-02	1.03E-02	9.36E-05	6.41E-06	1.61E-06	9.82E-07	0.0	0.0	0.0	0.0	0.0
1.50	1.30E-02	4.65E-03	1.65E-03	2.07E-06	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.00	2.82E-03	7.02E-04	1.68E-04	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.50	6.14E-04	1.07E-04	1.71E-05	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.00	1.35E-04	1.50E-05	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.50	2.96E-05	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

NORMFLUX= 4.03E 07 5.08E 07 4.75E 07 5.84E 07 9.22E 07 1.03E 08 1.42E 08 1.22E 08 3.03E 07 5.25E 07 2.47E 07 2.20E 07

ENERGY LEVELS >(MEV)	L - BANDS (MAGNETIC SHELL PARAMETER IN EARTH RADII) L - BANDS											
	5.8-6.0	*6.0-6.2*	*6.2-6.4*	*6.4-6.6*	*6.6-6.8*	*6.8-7.0*	*7.0-7.2*	*7.2-7.4*	*7.4-7.6*	*7.6-7.8*	*7.8-8.0*	*8.0-OVR*
.100	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0
.500	3.45E-03	3.56E-03	3.33E-03	3.24E-03	1.05E-02	0.0	0.0	0.0	0.0	0.0	0.0	0.0
.900	8.35E-06	1.13E-05	1.05E-05	8.27E-06	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.50	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.50	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.50	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

NORMFLUX= 1.66E 07 5.86E 06 7.55E 06 8.11E 06 1.99E 05 0.0 0.0 0.0 0.0 0.0 0.0 0.0

Table 3/

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*****
** ORBITAL FLUX STUDY WITH COMPOSITE PARTICLE ENVIRONMENTS: VETTES AP5, AP6, AP7; AE4, AE5, FOR SOLAR MAXIMUM **** UNIFLX OF 1973 **
** ELECTRON FLUXES EXPONENTIALLY DECAYED TO 1970, 0 WITH LIFETIMES: E.G. STASINOPOL 0.06P, VERZARTU *** CUTOFF TIMES:
** MAGNETIC COORDINATES B AND L COMPUTED BY INVARA OF 1972 WITH ALLMAG, MODEL 4: CAINCWENEY 120-TERM POGO 8/69 * TIME = 1974.0 **
** VEHICLE: SATE ** INCLINATION= 60DEG ** PERIGEE= 600KM ** APOGEE= 600KM ** S/L ORBIT TAPE: TD7964 ** PERIOD= 1.611 **
*****
***** HIGH ENERGY PROTONS *****
** SPECTRAL DISTRIBUTION : NORMALIZED BY FLUX OF ENERGY GREATER THAN 5.00 MEV **
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ENERGY LEVELS >(MEV)	L - BANDS (MAGNETIC SHELL PARAMETER IN EARTH RADII) L - BANDS													
	1.0-1.2	*1.2-1.4*	*1.4-1.6*	*1.6-1.8*	*1.8-2.0*	*2.0-2.2*	*2.2-2.4*	*2.4-2.6*	*2.6-2.8*	*2.8-3.0*	*3.0-3.2*	*3.2-3.4*		
3.00	1.41E 00	1.44E 00	1.44E 00	1.60E 00	1.85E 00	2.23E 00	2.28E 00	3.59E 00	7.14E 00	1.89E 02	5.12E 02	2.11E 02		
6.00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.80E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	0.0	0.0		
10.0	7.35E-01	6.87E-01	5.82E-01	3.92E-01	2.41E-01	1.86E-01	1.56E-01	1.02E-01	6.87E-02	0.0	0.0	0.0		
18.0	6.07E-01	6.44E-01	4.16E-01	2.20E-01	9.81E-02	6.50E-02	4.82E-02	2.44E-02	1.23E-02	0.0	0.0	0.0		
20.0	5.73E-01	4.96E-01	3.66E-01	1.71E-01	6.59E-02	3.75E-02	2.13E-02	5.90E-03	1.09E-03	0.0	0.0	0.0		
28.0	5.58E-01	4.70E-01	3.40E-01	1.44E-01	5.02E-02	2.49E-02	1.09E-02	1.02E-03	0.0	0.0	0.0	0.0		
30.0	5.43E-01	4.46E-01	3.16E-01	1.21E-01	3.83E-02	1.67E-02	5.85E-03	1.00E-04	0.0	0.0	0.0	0.0		
60.0	4.80E-01	3.63E-01	2.39E-01	6.20E-02	1.32E-02	3.47E-03	6.17E-04	0.0	0.0	0.0	0.0	0.0		
100.	3.56E-01	2.21E-01	1.27E-01	2.32E-02	3.21E-03	3.69E-04	0.0	0.0	0.0	0.0	0.0	0.0		
NORMFLUX=	5.84E 05	4.30E 06	3.68E 06	3.71E 06	3.92E 06	2.29E 06	1.07E 06	7.70E 05	7.88E 04	3.03E 02	0.0	0.0		

[illegible][illegible]

Table 32

 ** ORBITAL FLUX STUDY WITH COMPOSITE PARTICLE ENVIRONMENTS: VETTES APS, AP6, AP7; AE4, AE5, FOR SOLAR MAXIMUM **** UNIFLX OF 1973 **
 ** ELECTRON FLUXES EXPONENTIALLY DECAYED TO 1970. 0 WITH LIFETIMES: E.G. STASSINOPOULOS & P. VERZARIU ** CUTOFF TIMES: **
 ** MAGNETIC COORDINATES B AND L COMPUTED BY INVAPA OF 1972 WITH ALLMAG, MODEL 4: CAINE SWEENEY 120-TERM POGO 8/69 * TIME= 1974.0 **
 ** VEHICLE : SATS ** INCLINATION= 60DEG ** PERIGEE= 600KM ** APOGEE= 600KM ** B/L ORBIT TAPE: TD7964 ** PERIOD= 1.611 **

 ***** ELECTRONICS *****
 ** SPECTRAL DISTRIBUTION : NORMALIZED BY FLUX OF ENERGY GREATER THAN .500 MEV **

ENERGY LEVELS >(MEV)	L - BANDS (MAGNETIC SHELL PARAMETER IN EARTH RADII) L - BANDS											
	1.0-1.2	*1.2-1.4*	*1.4-1.6*	*1.6-1.8*	*1.8-2.0*	*2.0-2.2*	*2.2-2.4*	*2.4-2.6*	*2.6-2.8*	*2.8-3.0*	*3.0-3.2*	*3.2-3.4*
.0	4.67E 00	1.24E 01	2.84E 01	1.23E 02	2.03E 02	3.71E 02	6.57E 02	3.86E 02	6.00E 01	1.97E 01	1.28E 01	1.23E 01
.500	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00
1.00	5.65E-01	8.72E-02	2.07E-01	2.04E-01	6.21E-02	4.23E-02	4.41E-02	7.22E-02	1.80E-01	3.43E-01	3.64E-01	3.89E-01
1.50	3.85E-01	3.89E-02	1.11E-01	8.56E-02	1.46E-02	6.61E-03	6.14E-03	1.35E-02	6.46E-02	1.74E-01	1.79E-01	1.92E-01
2.00	2.04E-01	1.84E-02	6.23E-02	3.52E-02	4.08E-03	1.63E-03	1.17E-03	2.68E-03	2.54E-02	8.86E-02	8.77E-02	9.48E-02
2.50	7.56E-02	7.47E-03	2.63E-02	1.23E-02	1.05E-03	3.04E-04	9.15E-05	7.93E-05	6.06E-03	4.05E-02	3.82E-02	4.09E-02
3.00	2.64E-02	2.78E-03	7.81E-03	3.70E-03	2.23E-04	0.0	0.0	0.0	2.05E-04	1.38E-02	1.42E-02	1.49E-02
4.00	4.83E-04	2.90E-05	7.57E-05	7.30E-05	0.0	0.0	0.0	0.0	0.0	3.56E-04	3.97E-04	4.14E-04
5.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

NCRFLUX= 4.22E 06 2.11E 08 3.65E 08 6.41E 07 2.86E 07 7.57E 06 2.70E 06 1.71E 06 2.94E 05 7.31E 06 6.52E 07 1.45E 08

ENERGY LEVELS >(MEV)	L - BANDS (MAGNETIC SHELL PARAMETER IN EARTH RADII) L - BANDS											
	3.4-3.6	*3.6-3.8*	*3.8-4.0*	*4.0-4.2*	*4.2-4.4*	*4.4-4.6*	*4.6-4.8*	*4.8-5.0*	*5.0-5.2*	*5.2-5.4*	*5.4-5.6*	*5.6-5.8*
.0	1.50E 01	1.21E 01	9.02E 00	6.91E 00	6.73E 00	6.68E 00	6.99E 00	7.20E 00	7.42E 00	7.56E 00	7.68E 00	7.61E 00
.500	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00
1.00	3.97E-01	3.84E-01	3.67E-01	3.56E-01	3.57E-01	3.55E-01	3.44E-01	3.37E-01	3.29E-01	3.23E-01	3.16E-01	2.81E-01
1.50	1.98E-01	1.92E-01	1.73E-01	1.51E-01	1.42E-01	1.34E-01	1.26E-01	1.21E-01	1.14E-01	1.06E-01	1.00E-01	8.60E-02
2.00	9.92E-02	9.59E-02	8.16E-02	6.39E-02	5.67E-02	5.07E-02	4.60E-02	4.37E-02	3.95E-02	3.51E-02	3.20E-02	2.63E-02
2.50	4.52E-02	4.77E-02	4.05E-02	2.85E-02	2.39E-02	2.03E-02	1.70E-02	1.54E-02	1.29E-02	1.05E-02	9.03E-03	7.21E-03
3.00	1.75E-02	2.02E-02	1.63E-02	1.26E-02	9.52E-03	7.42E-03	5.33E-03	4.45E-03	3.47E-03	2.67E-03	2.21E-03	1.80E-03
4.00	5.22E-04	6.72E-04	6.21E-04	3.95E-04	2.67E-04	1.89E-04	1.30E-04	1.07E-04	7.92E-05	5.78E-05	4.59E-05	2.50E-05
5.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

NCRFLUX= 1.27E 08 1.71E 08 1.63E 08 1.90E 08 1.27E 08 1.10E 08 7.99E 07 7.37E 07 4.01E 07 2.72E 07 3.47E 07 2.23E 07

ENERGY LEVELS >(MEV)	L - BANDS (MAGNETIC SHELL PARAMETER IN EARTH RADII) L - BANDS											
	5.8-6.0	*6.0-6.2*	*6.2-6.4*	*6.4-6.6*	*6.6-6.8*	*6.8-7.0*	*7.0-7.2*	*7.2-7.4*	*7.4-7.6*	*7.6-7.8*	*7.8-8.0*	*8.0-OVR*
.0	7.53E 00	8.15E 00	5.70E 00	1.13E 01	1.30E 01	1.65E 01	2.13E 01	2.87E 01	4.12E 01	5.74E 01	1.19E 02	4.10E 03
.500	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00
1.00	2.54E-01	2.40E-01	2.36E-01	2.32E-01	2.15E-01	1.68E-01	1.44E-01	1.29E-01	1.15E-01	1.04E-01	8.25E-02	6.18E-02
1.50	7.55E-02	6.87E-02	6.45E-02	6.07E-02	5.36E-02	3.76E-02	3.04E-02	2.63E-02	2.27E-02	1.94E-02	1.61E-02	8.67E-03
2.00	2.25E-02	1.97E-02	1.76E-02	1.59E-02	1.33E-02	8.41E-03	6.42E-03	5.38E-03	4.49E-03	3.64E-03	2.91E-03	1.44E-03
2.50	6.05E-03	5.10E-03	4.34E-03	3.72E-03	3.01E-03	1.80E-03	1.32E-03	1.08E-03	8.65E-04	5.95E-04	0.0	0.0
3.00	1.54E-03	1.23E-03	9.32E-04	7.35E-04	5.78E-04	3.63E-04	2.59E-04	1.87E-04	0.0	0.0	0.0	0.0
4.00	1.16E-05	4.42E-06	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

NCRFLUX= 1.98E 07 1.49E 07 7.39E 06 3.77E 06 5.25E 06 1.64E 06 2.35E 06 2.02E 06 7.45E 05 1.29E 05 1.75E 05 2.70E 05

Table 23

 ** ORBITAL FLUX STUDY WITH COMPOSITE PARTICLE ENVIRONMENTS: VETTES APS, AP6, AP7; AE4, AES, FOR SOLAR MAXIMUM *** UNIFLX OF 1973 **
 ** ELECTRON FLUXES EXPONENTIALLY DECAYED TO 1970. 0 WITH LIFETIMES: E.G. STASSINPOULOS & P. VERZARIU ** CUTOFF TIMES: **
 ** MAGNETIC COORDINATES B AND L COMPUTED BY INVARA OF 1972 WITH ALLMAG, MODEL 4: CAINESWENEY 120-TERM PGD 2/69 * TIME= 1974.0 **
 ** VEHICLE : SATS ** INCLINATION= 90DEG ** PERIGEE= .600KM ** APOGEE= .600KM ** B/L ORBIT TAPE: 107564 ** PERIOD= 1.611 **

 ** SPECTRAL DISTRIBUTION : NORMALIZED BY FLUX OF ENERGY GREATER THAN .100 MEV **

ENERGY L - BANDS (MAGNETIC SHELL PARAMETER IN EARTH RADII) L - BANDS
 LEVELS *1.0-1.2* *1.2-1.4* *1.4-1.6* *1.6-1.8* *1.8-2.0* *2.0-2.2* *2.2-2.4* *2.4-2.6* *2.6-2.8* *2.8-3.0* *3.0-3.2* *3.2-3.4*
 >(MEV)

.100	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00
.500	8.61E-01	8.35E-01	8.35E-01	8.35E-01	8.48E-01	7.54E-01	4.51E-01	3.89E-01	4.17E-01	3.99E-01	3.49E-01	3.34E-01
.900	7.47E-01	7.12E-01	7.16E-01	7.14E-01	7.30E-01	5.98E-01	2.45E-01	1.82E-01	1.85E-01	1.61E-01	1.22E-01	1.12E-01
1.10	7.02E-01	6.74E-01	6.83E-01	6.81E-01	6.89E-01	5.53E-01	2.25E-01	1.55E-01	1.34E-01	1.03E-01	7.21E-02	6.59E-02
1.50	6.24E-01	6.05E-01	6.22E-01	6.19E-01	6.16E-01	4.72E-01	1.89E-01	1.12E-01	7.12E-02	4.26E-02	2.52E-02	2.26E-02
2.00	5.43E-01	5.30E-01	5.55E-01	5.51E-01	5.35E-01	3.88E-01	1.52E-01	7.52E-02	3.33E-02	1.42E-02	6.79E-03	5.96E-03
2.50	4.75E-01	4.65E-01	4.95E-01	4.50E-01	4.66E-01	3.19E-01	1.24E-01	5.07E-02	1.62E-02	4.78E-03	1.83E-03	1.57E-03
3.00	4.18E-01	4.09E-01	4.43E-01	4.37E-01	4.06E-01	2.63E-01	1.01E-01	3.43E-02	8.17E-03	1.62E-03	4.93E-04	4.14E-04
3.50	3.69E-01	3.60E-01	3.56E-01	3.90E-01	3.54E-01	2.17E-01	8.24E-02	2.32E-02	4.28E-03	5.52E-04	1.33E-04	1.09E-04

NORMFLUX= 1.71E 06 1.32E 07 9.13E 06 1.10E 07 1.37E 07 1.22E 07 2.25E 07 2.72E 07 3.66E 07 2.03E 07 4.80E 07 1.04E 07

ENERGY L - BANDS (MAGNETIC SHELL PARAMETER IN EARTH RADII) L - BANDS
 LEVELS *3.4-3.6* *3.6-3.8* *3.8-4.0* *4.0-4.2* *4.2-4.4* *4.4-4.6* *4.6-4.8* *4.8-5.0* *5.0-5.2* *5.2-5.4* *5.4-5.6* *5.6-5.8*
 >(MEV)

.100	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00
.500	2.90E-01	2.34E-01	1.22E-01	3.52E-02	1.02E-02	5.80E-03	4.97E-03	3.93E-03	3.69E-03	3.53E-03	3.51E-03	3.34E-03
.900	8.48E-02	5.48E-02	1.64E-02	1.36E-03	1.16E-04	3.39E-05	2.43E-05	1.44E-05	1.34E-05	1.14E-05	1.11E-05	1.12E-05
1.10	4.62E-02	2.65E-02	6.22E-03	2.74E-04	1.19E-05	1.80E-06	1.47E-06	0.0	0.0	0.0	0.0	0.0
1.50	1.37E-02	6.20E-03	9.33E-04	1.04E-05	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.00	3.02E-03	1.01E-03	9.22E-05	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.50	6.69E-04	1.64E-04	8.67E-06	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.00	1.49E-04	2.67E-05	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.50	3.16E-05	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

NORMFLUX= 5.37E 07 6.31E 06 5.54E 07 4.16E 07 1.09E 08 1.62E 08 1.13E 08 8.72E 07 1.01E 08 9.85E 07 7.61E 07 2.86E 07

ENERGY L - BANDS (MAGNETIC SHELL PARAMETER IN EARTH RADII) L - BANDS
 LEVELS *5.8-6.0* *6.0-6.2* *6.2-6.4* *6.4-6.6* *6.6-6.8* *6.8-7.0* *7.0-7.2* *7.2-7.4* *7.4-7.6* *7.6-7.8* *7.8-8.0* *8.0-OVR*
 >(MEV)

.100	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0
.500	3.51E-03	3.40E-03	3.65E-03	3.49E-03	4.07E-03	0.0	0.0	0.0	0.0	0.0	0.0	0.0
.900	1.16E-05	1.12E-05	9.69E-06	8.80E-06	1.61E-05	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.50	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.50	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.50	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

NORMFLUX= 2.15E 07 2.57E 07 2.18E 07 2.32E 07 6.06E 06 0.0 0.0 0.0 0.0 0.0 0.0 0.0

Table 34

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** ORBITAL FLUX STUDY WITH COMPOSITE PARTICLE ENVIRONMENTS: VETTES AP5, AP6, AP7; AE4, AE5, FOR SOLAR MAXIMUM *** UNIFLX OF 1973 **
** ELECTRON FLUXES EXPONENTIALLY DECAYED TO 1970, -0 WITH LIFETIMES E.G. STASSINOPoulos P. VERZARIU ** CUTOFF TIMES: - **
** MAGNETIC COORDINATES B AND L COMPUTED BY INARA OF 1972 WITH ALLMAG, MODEL 4: CAINE SWEENEY 120-TERM POGO E/69 + TIME = 1974.0 **
** VEHICLE: --- SATS. --- ** INCLINATION= 90DEG ** PERIGEE= ---600KM ** APOGEE= 500KM ** B/L ORBIT TAPE: T07S64 ** PERIOD= 1.611 **
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***** - HIGH ENERGY PROTONS *****
** SPECTRAL DISTRIBUTION : NORMALIZED BY FLUX OF ENERGY GREATER THAN 5.00 MEV **
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ENERGY LEVELS >(MEV)	L - BANDS (MAGNETIC SHELL PARAMETER IN EARTH RADII) L - BANDS											
	1.0-1.2	*1.2-1.4*	*1.4-1.6*	*1.6-1.8*	*1.8-2.0*	*2.0-2.2*	*2.2-2.4*	*2.4-2.6*	*2.6-2.8*	*2.8-3.0*	*3.0-3.2*	*3.2-3.4*
3.00	1.40E 00	1.43E 00	1.44E 00	1.58E 00	1.85E 00	2.24E 00	2.37E 00	4.04E 00	7.11E 00	2.51E 01	3.94E 02	7.18E 01
5.00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	0.0	0.0
10.0	7.34E-01	6.88E-01	5.85E-01	4.02E-01	2.47E-01	1.85E-01	1.51E-01	9.00E-02	6.47E-02	0.0	0.0	0.0
15.0	6.06E-01	5.39E-01	4.25E-01	2.28E-01	1.01E-01	6.40E-02	4.58E-02	1.96E-02	1.10E-02	0.0	0.0	0.0
20.0	5.70E-01	4.92E-01	3.75E-01	1.79E-01	6.79E-02	3.70E-02	1.90E-02	4.30E-03	2.14E-03	0.0	0.0	0.0
25.0	5.64E-01	4.66E-01	3.49E-01	1.52E-01	5.18E-02	2.45E-02	9.26E-03	3.50E-04	0.0	0.0	0.0	0.0
30.0	5.39E-01	4.42E-01	3.25E-01	1.30E-01	3.96E-02	1.63E-02	4.85E-03	0.0	0.0	0.0	0.0	0.0
50.0	4.83E-01	3.60E-01	2.46E-01	6.85E-02	1.37E-02	3.29E-03	4.96E-04	0.0	0.0	0.0	0.0	0.0
100.	3.54E-01	2.20E-01	1.28E-01	2.65E-02	3.41E-03	2.73E-04	0.0	0.0	0.0	0.0	0.0	0.0
NORMFLUX=	5.08E 05	3.77E 06	2.81E 06	3.05E 06	3.01E 06	1.43E 06	9.59E 05	2.31E 05	4.21E 04	1.31E 03	0.0	0.0

[illegible][illegible]

 ** ORBITAL FLUX STUDY WITH COMPOSITE PARTICLE ENVIRONMENTS: VETTES AP5, AP6, AP7; AE4, AE5, FOR SOLAR MAXIMUM **** UNIFLX OF 1973 **
 ** ELECTRON FLUXES EXPONENTIALLY DECAYED TO 1970-0 WITH LIFETIMES: E.G. STASSINOPOULOS & P. VERZARIU ** CUTOFF TIMES: **
 ** MAGNETIC COORDINATES B AND L COMPUTED BY INVARA OF 1972 WITH ALLMAG, MODEL 4: CAINE & SWEENEY 120-TERM POGO 2/69 * TIME = 1974.0 **
 ** VEHICLE: SATS. ** INCLINATION = 90DEG ** PERIGEE = 600KM ** APOGEE = 600KM ** R/L ORBIT TAPE: TD7964 ** PERIOD = 1.611 **

 ***** ELECTRONS *****
 ** SPECTRAL DISTRIBUTION: NORMALIZED BY FLUX OF ENERGY GREATER THAN .500 MEV **

ENERGY LEVELS >(MEV)	L - BANDS (MAGNETIC SHELL PARAMETER IN EARTH RADII) L - BANDS											
	1.0-1.2	*1.2-1.4*	*1.4-1.6*	*1.6-1.8*	*1.8-2.0*	*2.0-2.2*	*2.2-2.4*	*2.4-2.6*	*2.6-2.8*	*2.8-3.0*	*3.0-3.2*	*3.2-3.4*
.0	4.52E 00	1.24E 01	2.50E 01	1.17E 02	2.01E 02	3.89E 02	6.89E 02	1.26E 02	5.94E 01	1.52E 01	1.28E 01	1.24E 01
.500	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00
1.00	5.69E-01	9.05E-02	2.12E-01	2.21E-01	6.46E-02	4.19E-02	4.46E-02	9.48E-02	2.05E-01	3.43E-01	3.64E-01	3.90E-01
1.50	3.89E-01	4.03E-02	1.14E-01	5.82E-02	1.64E-02	6.51E-03	6.17E-03	2.08E-02	8.18E-02	1.73E-01	1.79E-01	1.92E-01
2.00	2.07E-01	1.93E-02	6.65E-02	4.15E-02	4.34E-03	1.59E-03	1.13E-03	4.72E-03	3.66E-02	8.78E-02	8.77E-02	9.50E-02
2.50	7.64E-02	8.02E-03	2.71E-02	1.43E-02	1.14E-03	3.15E-04	4.91E-05	4.31E-04	1.05E-02	4.03E-02	3.81E-02	4.10E-02
3.00	2.64E-02	3.02E-03	8.11E-03	4.23E-03	2.44E-04	0.0	0.0	0.0	5.95E-04	1.41E-02	1.42E-02	1.50E-02
4.00	4.23E-04	2.97E-05	8.19E-05	8.17E-05	0.0	0.0	0.0	0.0	0.0	3.68E-04	3.64E-04	4.15E-04
5.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NORMFLUX=	3.79E 06	1.98E 08	2.19E 08	5.78E 07	2.27E 07	4.63E 06	2.41E 06	4.44E 05	1.77E 05	2.85E 06	4.38E 07	8.28E 07

ENERGY LEVELS >(MEV)	L - BANDS (MAGNETIC SHELL PARAMETER IN EARTH RADII) L - BANDS											
	3.4-3.6	*3.6-3.8*	*3.8-4.0*	*4.0-4.2*	*4.2-4.4*	*4.4-4.6*	*4.6-4.8*	*4.8-5.0*	*5.0-5.2*	*5.2-5.4*	*5.4-5.6*	*5.6-5.8*
.0	1.54E 01	1.25E 01	8.73E 00	6.90E 00	6.75E 00	6.72E 00	6.92E 00	7.20E 00	7.39E 00	7.57E 00	7.68E 00	7.63E 00
.500	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00
1.00	3.97E-01	3.87E-01	3.65E-01	3.56E-01	3.56E-01	3.53E-01	3.46E-01	3.37E-01	3.31E-01	3.23E-01	3.15E-01	2.81E-01
1.50	1.99E-01	1.94E-01	1.70E-01	1.50E-01	1.42E-01	1.32E-01	1.27E-01	1.21E-01	1.16E-01	1.07E-01	1.00E-01	8.57E-02
2.00	9.93E-02	9.68E-02	7.95E-02	6.34E-02	5.67E-02	4.96E-02	4.68E-02	4.37E-02	4.05E-02	3.82E-02	3.19E-02	2.62E-02
2.50	4.51E-02	4.68E-02	3.45E-02	2.82E-02	2.39E-02	1.96E-02	1.75E-02	1.53E-02	1.35E-02	1.06E-02	9.02E-03	7.16E-03
3.00	1.73E-02	1.96E-02	1.78E-02	1.24E-02	9.57E-03	6.98E-03	5.67E-03	4.42E-03	3.66E-03	2.69E-03	2.21E-03	1.78E-03
4.00	5.06E-04	6.45E-04	6.00E-04	3.84E-04	2.68E-04	1.75E-04	1.39E-04	1.07E-04	8.48E-05	5.80E-05	4.54E-05	2.86E-05
5.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NORMFLUX=	1.40E 08	5.99E 07	2.48E 08	1.47E 08	1.31E 08	9.74E 07	7.53E 07	9.28E 07	8.04E 07	5.36E 07	5.10E 07	1.37E 07

ENERGY LEVELS >(MEV)	L - BANDS (MAGNETIC SHELL PARAMETER IN EARTH RADII) L - BANDS											
	5.8-6.0	*6.0-6.2*	*6.2-6.4*	*6.4-6.6*	*6.6-6.8*	*6.8-7.0*	*7.0-7.2*	*7.2-7.4*	*7.4-7.6*	*7.6-7.8*	*7.8-8.0*	*8.0-OVR*
.0	7.54E 00	8.02E 00	9.65E 00	1.13E 01	1.32E 01	1.66E 01	1.97E 01	2.50E 01	3.63E 01	6.46E 01	1.25E 02	3.35E 03
.500	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00
1.00	2.51E-01	2.40E-01	2.36E-01	2.32E-01	2.13E-01	1.68E-01	1.49E-01	1.36E-01	1.19E-01	1.02E-01	8.81E-02	5.51E-02
1.50	7.45E-02	6.90E-02	6.41E-02	6.08E-02	6.29E-02	3.75E-02	3.19E-02	2.81E-02	2.37E-02	1.90E-02	1.59E-02	6.29E-03
2.00	2.21E-02	1.99E-02	1.74E-02	1.59E-02	1.31E-02	8.38E-03	6.84E-03	5.82E-03	4.74E-03	3.57E-03	2.88E-03	9.67E-04
2.50	5.93E-03	5.18E-03	4.25E-03	3.73E-03	2.97E-03	1.80E-03	1.43E-03	1.18E-03	9.43E-04	5.28E-04	0.0	0.0
3.00	1.51E-03	1.27E-03	9.05E-04	7.37E-04	5.72E-04	3.62E-04	2.89E-04	2.23E-04	1.59E-04	0.0	0.0	0.0
4.00	1.39E-05	6.58E-06	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NORMFLUX=	1.37E 07	2.04E 07	2.70E 07	1.34E 07	6.78E 06	3.58E 06	5.47E 06	4.66E 05	2.10E 06	7.15E 05	2.58E 05	5.62E 05

Table 36

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*****
** CREDITAL FLUX STUDY WITH COMPOSITE PARTICLE ENVIRONMENTS: VETTES AFS, AP6, AP7; AE4, AE5, FOR SOLAR MAXIMUM **** UNIFLX OF 1973 **
** ELECTRON FLUXES EXPONENTIALLY DECAYED TO 1970. 0 WITH LIFETIMES: E.G. STASSINOPOLULOSE-VERZARIU ** CUTOFF TIMES: **
** MAGNETIC COORDINATES B AND L COMPLETED BY INVASA OF 1972 WITH ALLYAG, NCOEL 4; CAINEFWEENEY 120-TERM PDGD 8/69 * TIME= 1974.0 **
** VEHICLE : SATE ** INCLINATION= 0DEG ** PERIGEE= 800KM ** APGCEE= 800KM ** B/L CRBIT TAPE: YD7036 ** PERIGD= 1.691 **
*****
** SPECTRAL DISTRIBUTION : NORMALIZED BY FLUX OF ENERGY GREATER THAN 100 MEV **
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ENERGY LEVELS L - BANDS (MAGNETIC SHELLE PARAMETER IN EARTH RADII) L - BANDS
1.0-1.2 *1.2-1.4* *1.4-1.6* *1.6-1.8* *1.8-2.0* *2.0-2.2* *2.2-2.4* *2.4-2.6* *2.6-2.8* *2.8-3.0* *3.0-3.2* *3.2-3.4*
>(MEV)

[illegible]

```

NCFMFLUX#  1.77E C7  2.55E C7  0.0      0.0      0.0      0.0      0.0      0.0      0.0      0.0      0.0      0.0

```

ENERGY LEVELS L-BANDS (MAGNETIC SHELL PARAMETER IN EARTH RADIO) L-BANDS
 3.4-3.6 *3.6-3.8* *3.8-4.0* *4.0-4.2* *4.2-4.4* *4.4-4.6* *4.6-4.8* *4.8-5.0* *5.0-5.2* *5.2-5.4* *5.4-5.6* *5.6-5.8*

[illegible]

KDFMFLUX= 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0

ENERGY L - BANDS (MAGNETIC SHELL PARAMETER IN FATH RADIO) L - BANDS
 5.8-6.0 *6.0-6.2* *6.2-6.4* *6.4-6.6* *6.6-6.8* *6.8-7.0* *7.0-7.2* *7.2-7.4* *7.4-7.6* *7.6-7.8* *7.8-8.0* *8.0-8.2*
 3 (MEV)

[illegible]

ACRFFLLX= 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0

Table 38

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*****
** ORBITAL FLUX STUDY WITH COMPOSITE PARTICLE ENVIRONMENTS: VERTICES AP5, AP6, AP7; AC4, AP8, FCF SOLAR MAXIMUM *** UNIFLX OF 1973 **
** ELECTRON FLUXES-EXPONENTIALLY DECAYED TO 1970.0 WITH LIFETIMES: E.G. STASSINOPULOS&PAVERZANI ** CUTOFF TIMES: **
** MAGNETIC COORDINATES B AND L COMPUTED BY INVARA OF 1972 WITH ALLWAG, ACDFL 4; CAIN&SWEENEY 120-TERM POGO 8/69 ** TIME= 1974.0 **
** VEHICLE: 1 --- 1 SATS. ** INCLINATION= ODEG ** PERICEE= 800KM ** APCGEE= -800KM ** B/L ORBIT TAPE: TD7036 ** PERIOD= 1.681 **
*****

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***** ELECTRONS *****

*** SPECTRAL DISTRIBUTION : NORMALIZED BY FLUX OF ENERGY GREATER THAN .500 MEV ***

ENERGY LEVELS >(MEV)	L - HANDS (MAGNETIC SHELL PARAMETER IN EARTH RACIAL) L - HANDS											
	1.0-1.2	*1.2-1.4*	*1.4-1.6*	*1.6-1.8*	*1.8-2.0*	*2.0-2.2*	*2.2-2.4*	*2.4-2.6*	*2.6-2.8*	*2.8-3.0*	*3.0-3.2*	*3.2-3.4*
.C	4.37E C0	2.13E C1	O.C	O.O	O.O	O.O	O.O	O.O	O.O	O.O	O.O	O.O
.5CC	1.0CE CO	1.0CE CO	O.C	O.O	O.C	O.O	O.O	O.O	O.O	O.O	O.O	O.O
1.CC	5.78E-C1	5.42E-C2	O.O	O.O	O.O	O.O	O.O	O.O	O.O	O.O	O.O	O.O
1.EC	3.95E-C1	2.46E-C2	O.C	O.O	O.O	O.O	O.O	O.O	O.O	O.O	O.O	O.O
2.OO	2.16E-C1	7.52E-C3	O.C	C.O	O.O	O.O	O.O	O.O	O.O	O.O	O.O	O.O
2.EC	8.10E-C2	1.48E-C3	O.O	O.O	O.O	O.O	O.O	O.O	O.O	O.O	O.O	O.O
3.OO	2.82E-C2	2.95E-C3	O.O	O.O	O.O	O.O	O.O	O.O	O.O	O.O	O.O	O.O
4.CC	3.5CF-CA	C.C	O.C	C.O	O.C	O.O	O.O	O.O	O.O	O.O	O.O	O.O
5.OO	O.C	C.O	O.O	C.O	O.C	O.O	O.O	O.O	O.O	O.O	O.O	O.O
NORFLUX=	3.54E C7	1.8CE C7	J.C	O.O	C.C	O.O	O.O	O.O	O.O	O.O	O.O	O.O

[illegible][illegible]

Table 39

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*****
** ORBITAL FLUX STUDY WITH COMPOSITE PARTICLE ENVIRONMENTS: VETTES AP5, AP6, AP7; AE4, AE5. FOR SOLAR MAXIMUM *** UNIFLX OF 1973 **
** ELECTRON FLUXES EXPONENTIALLY DECAYED TO 1974.0 WITH LIFETIMES: E-C STASSINPOULOS-VERZARIU *** CUTOFF TIMES:
** MAGNETIC COORDINATES B AND L COMPLIED BY INVARA CF 1972 WITH ALLMAG. MODEL 4: CAINSGREENEY 120-TERM POGO 8/69 * TIME= 1974.0 **
** VEHICLE : SATS ** INCLINATION= 30DEG ** PERIGEE= 800KM ** APOGEE= 800KM ** S/L ORBIT. IAP2: TD7036 ** PERIOD= 1.681 **
*****
***** LC ENERGY PROTONS *****
** SPECTRAL DISTRIBUTION : NORMALIZED BY FLUX OF ENERGY GREATER THAN .100 MEV **
*****

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[illegible][illegible][illegible]

Table 4a

 ** CRITICAL FLUX STUDY WITH COMPOSITE PARTICLE ENVIRONMENTS: VETTES AF5, AF6, AP7; AE4, AEE, FOR SOLAR MAXIMUM *** UNIFLX OF 1973 **
 ** ELECTRON FLUXES EXPONENTIALLY DECAYED TO 1970.0 WITH LIFETIMES: E.G. STASSINOPOLSKO & P. VERZARU ** CUTOFF TIMES: **
 ** MAGNETIC COORDINATES B AND L COMPUTED BY INVARA OF 1972 WITH ALL MAG. MODEL 4: CAIN & SWEENEY 120-TERM POGO 6/69 * TIME = 1974.0 **
 ** VEHICLE : SATS ** INCLINATION = 30DEG ** PERIGEE = 200KM ** APOGEE = 800KM ** B/L ORBIT TAPE: TD7036 ** PERIOD = 1.681 **

 ***** HIGH ENERGY PROTONS *****
 ** SPECTRAL DISTRIBUTION : NORMALIZED BY FLUX OF ENERGY GREATER THAN 5.00 MEV **

ENERGY LEVELS >(MEV)	L - BANDS (MAGNETIC SHELL PARAMETER IN EARTH RADII) L - BANDS											
	1.0-1.2	*1.2-1.4*	*1.4-1.6*	*1.6-1.8*	*1.8-2.0*	*2.0-2.2*	*2.2-2.4*	*2.4-2.6*	*2.6-2.8*	*2.8-3.0*	*3.0-3.2*	*3.2-3.4*
3.00	1.42E-00	1.37E-00	1.41E-00	1.56E-00	1.73E-00	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5.00	1.00E-00	1.00E-00	1.00E-00	1.00E-00	1.00E-00	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10.0	6.93E-01	6.20E-01	5.34E-01	3.67E-01	2.65E-01	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15.0	5.51E-01	4.56E-01	3.63E-01	1.97E-01	1.13E-01	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20.0	5.12E-01	4.06E-01	3.18E-01	1.53E-01	7.62E-02	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25.0	4.96E-01	3.81E-01	2.98E-01	1.30E-01	6.10E-02	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30.0	4.80E-01	3.56E-01	2.76E-01	1.10E-01	4.76E-02	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50.0	4.20E-01	2.72E-01	2.14E-01	5.85E-02	1.78E-02	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100.	3.09E-01	1.76E-01	1.23E-01	2.51E-02	5.22E-03	0.0	0.0	0.0	0.0	0.0	0.0	0.0

NCNFLUX= 3.44E-06 4.48E-07 1.55E-07 1.36E-07 3.07E-06 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0

ENERGY LEVELS >(MEV)	L - BANDS (MAGNETIC SHELL PARAMETER IN EARTH RADII) L - BANDS											
	3.4-3.6	*3.6-3.8*	*3.8-4.0*	*4.0-4.2*	*4.2-4.4*	*4.4-4.6*	*4.6-4.8*	*4.8-5.0*	*5.0-5.2*	*5.2-5.4*	*5.4-5.6*	*5.6-5.8*
3.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

NCNFLUX= 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0

ENERGY LEVELS >(MEV)	L - BANDS (MAGNETIC SHELL PARAMETER IN EARTH RADII) L - BANDS											
	5.8-6.0	*6.0-6.2*	*6.2-6.4*	*6.4-6.6*	*6.6-6.8*	*6.8-7.0*	*7.0-7.2*	*7.2-7.4*	*7.4-7.6*	*7.6-7.8*	*7.8-8.0*	*8.0-OVR*
3.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

NCNFLUX= 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0

Table 44

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*****
** CREFITAL FLUX STUDY WITH CLMPOSITE PARTICLE ENVIRNMENTS: VETTES AFS, AF6, AP7; AE4, AE5, FOR SOLAR MAXIMUM **** UNIFLX OF 1973 **
** ELECTRON FLUXES EXPONENTIALLY DECAYED TO 1977. C WITH LIFETIMES: E-G, STASSINOPOLUSCP, VERZARIU ** CUTOFF TIMES:
** MAGNETIC COORDINATES B AND L COMPLETED BY INVASA CF 1972 WITH ALLNAG, MODEL 4; CAINESWENEY 120-TERM PDGC B/69 * TIME= 1974.0 **
** VEHICLE : SATS ** INCLINATION= 30DEG ** PERIGEE= 800KM ** APCGEE= 800KM ** B/L ORBIT TAPE: IDZ036 ** PERIOD= 1.681 **
*****
*****
***** ELECTRONS *****
** SPECTRAL DISTRIBUTION : NORMALIZED BY FLUX OF ENERGY GREATER THAN .500 MEV **
*****

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ENERGY LEVELS (MEV)	L - BANDS (MAGNETIC SPLITTING PARAMETER IN EARTH RADIATION L-BANDS											
	1.0-1.2	*1.2-1.4*	*1.4-1.6*	*1.6-1.8*	*1.8-2.0*	*2.0-2.2*	*2.2-2.4*	*2.4-2.6*	*2.6-2.8*	*2.8-3.0*	*3.0-3.2*	*3.2-3.4*
.0	5.37E C0	1.17E C1	3.42E C1	1.12E C2	1.77E C2	C.0	0.0	0.0	0.0	0.0	0.0	0.0
.500	1.00E C0	1.00E C0	1.00E C0	1.00E C0	1.00E C0	C.0	0.0	0.0	0.0	0.0	0.0	0.0
1.00	5.28E-C1	8.56E-C2	1.92E-C1	2.15E-C1	7.70E-C2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.50	3.42E-C1	4.02E-C2	1.00E-C1	5.53E-C2	1.57E-C2	C.0	0.0	0.0	0.0	0.0	0.0	0.0
2.00	1.67E-C1	1.75E-C2	5.64E-C2	4.01E-C2	5.74E-C3	0.0	0.0	0.0	C.0	0.0	0.0	0.0
2.50	5.28E-C2	6.56E-C3	2.43E-C2	1.38E-C2	1.56E-C3	C.0	0.0	0.0	C.0	0.0	0.0	0.0
3.00	1.54E-C2	2.24E-C3	8.00E-C3	4.04E-C3	3.54E-C4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.00	1.35E-C4	2.10E-C5	7.25E-C5	7.73E-C5	0.C	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5.00	0.C	0.0	0.C	0.0	0.C	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NORMFLUX=	4.25E C7	2.5CE C9	1.36E C9	2.37E C8	2.71E C7	0.0	0.0	0.0	0.0	0.0	0.0	0.0

[illegible][illegible]

ENERGY LEVELS >(NEV)	L - BANDS (MAGNETIC SHELL PARAMETER IN EARTH RADIUS) L - BANDS											
	1.0-1.2	*1.2-1.4*	*1.4-1.6*	*1.6-1.8*	*1.8-2.0*	*2.0-2.2*	*2.2-2.4*	*2.4-2.6*	*2.6-2.8*	*2.8-3.0*	*3.0-3.2*	*3.2-3.4*
.100	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00
.500	8.53E-01	8.35E-01	8.35E-01	8.35E-01	8.47E-01	7.90E-01	4.90E-01	4.37E-01	4.16E-01	3.72E-01	3.39E-01	3.21E-01
.900	7.39E-01	7.16E-01	7.16E-01	7.18E-01	7.34E-01	6.49E-01	2.82E-01	2.26E-01	1.94E-01	1.40E-01	1.15E-01	1.04E-01
1.10	7.01E-01	6.86E-01	6.93E-01	6.91E-01	7.02E-01	6.00E-01	2.57E-01	1.97E-01	1.48E-01	8.72E-02	6.77E-02	5.93E-02
1.50	6.32E-01	6.29E-01	6.44E-01	6.40E-01	6.42E-01	5.14E-01	2.14E-01	1.49E-01	1.07E-01	5.74E-02	3.40E-02	2.72E-02
2.00	5.58E-01	5.66E-01	5.86E-01	5.83E-01	5.75E-01	4.23E-01	1.70E-01	1.06E-01	4.56E-02	1.06E-02	6.11E-03	4.80E-03
2.50	4.93E-01	5.10E-01	5.37E-01	5.30E-01	5.15E-01	3.49E-01	1.36E-01	7.58E-02	2.40E-02	3.31E-03	1.61E-03	1.19E-03
3.00	4.37E-01	4.61E-01	4.67E-01	4.83E-01	4.62E-01	2.87E-01	1.09E-01	5.42E-02	1.28E-02	1.05E-03	4.24E-04	2.94E-04
3.50	3.88E-01	4.17E-01	4.46E-01	4.44E-01	4.15E-01	2.37E-01	8.71E-02	3.87E-02	6.83E-03	3.35E-04	1.11E-04	7.21E-05
ADMFLUX=	4.21E 06	6.02E 07	3.54E 07	3.50E 07	3.79E 07	3.08E 07	6.66E 07	9.13E 07	9.12E 07	1.86E 08	8.30E 07	6.10E 07

ENERGY LEVELS >(MEV)	L - BANDS (MAGNETIC SHELL PARAMETER IN EARTH RADIUS)										L - BANDS	
	3.4-3.6	*3.6-3.8*	*3.8-4.0*	*4.0-4.2*	*4.2-4.4*	*4.4-4.6*	*4.6-4.8*	*4.8-5.0*	*5.0-5.2*	*5.2-5.4*	*5.4-5.6*	*5.6-5.8*
1.00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00
1.50	2.75E-01	2.14E-01	1.36E-01	3.63E-02	7.33E-03	6.13E-03	4.90E-03	3.52E-03	3.54E-03	3.55E-03	3.48E-03	3.48E-03
2.00	7.02E-02	4.60E-02	1.96E-02	1.48E-03	5.39E-05	3.80E-05	2.40E-05	1.49E-05	1.14E-05	1.25E-05	1.16E-05	1.20E-05
2.50	4.05E-02	2.14E-02	7.45E-03	3.05E-04	4.25E-06	2.17E-06	1.30E-06	0.0	0.0	0.0	0.0	0.0
3.00	1.15E-02	4.63E-03	1.10E-03	1.31E-05	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.50	2.38E-03	6.89E-04	1.00E-04	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.00	5.00E-04	1.03E-04	8.45E-06	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.50	1.06E-04	1.45E-05	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5.00	2.02E-05	6.55E-07	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NORMFLUX=	1.33E 08	1.25E 08	6.14E 07	9.92E 07	3.09E 08	2.22E 08	3.61E 08	1.31E 08	8.90E 07	1.90E 08	6.68E 07	1.09E 08

ENERGY LEVELS	L - BANDS *5.0-6.0*	(MAGNETIC *6.0-7.0*	SHELL *7.0-8.0*	PARAMETER *8.0-9.0*	IN EARTH *9.0-10.0*	RADII) *10.0-11.0*	L - BANDS *11.0-12.0*
>(MEV)							
.100	1.00E C0	1.00E C0	1.00E C0	1.00E C0	1.00E C0	0.0	0.0
.500	3.26E-C3	3.48E-C3	3.47E-C3	3.56E-C3	0.0	0.0	0.0
.900	3.73E-C6	1.08E-C5	6.08E-C6	5.76E-C6	0.0	0.0	0.0
1.10	C.C	C.C	0.0	0.0	0.0	0.0	0.0
1.50	C.C	C.C	0.0	0.0	C.C	0.0	0.0
2.00	0.0	C.C	0.0	0.0	0.0	0.0	0.0
2.50	0.0	C.C	0.0	0.0	0.0	0.0	0.0
3.00	0.0	C.C	0.0	0.0	0.0	0.0	0.0
3.50	0.0	C.C	0.0	0.0	0.0	0.0	0.0
ACR#FLUX=	1.65E C7	3.92E C7	1.16E C7	2.49E C7	5.62E C6	0.0	0.0

Table 43

 ** CRITICAL FLUX STUDY WITH COMPOSITE PARTICLE ENVIRONMENTS: VERTES AFS, #P6, AP7; AE4, AFS, FOR SOLAR MAXIMUM *** UNIFLX OF 1973 **
 ** ELECTRON FLUXES EXPONENTIALLY DECAYED TO 1970. 0 WITH LIFETIMES: E.G. STASSINOPOLUSP, VERZARIU ** CUTOFF TIMES: **
 ** MAGNETIC COORDINATES B AND L COMPUTED BY INVARA OF 1972 WITH ALLMAG, MODEL 4: CAIRNSWEELEY 120-TERM PDG 8/69 * TIME= 1974.0 **
 ** VEHICLE : SATS ** INCLINATION= 60DEG ** PERIGEE= 800KM ** APCGEE= 800KM ** R/L ORBIT TAPE: TD7036 ** PERIOD= 1.681 **

***** HIGH ENERGY PROTONS *****
 ** SPECTRAL DISTRIBUTION : NORMALIZED BY FLUX OF ENERGY GREATER THAN 5.00 MEV **

ENERGY LEVELS (MEV)	L - BANDS (MAGNETIC SHELL PARAMETER IN EARTH RADII) L - BANDS											
	1.0-1.2	*1.2-1.4*	*1.4-1.6*	*1.6-1.8*	*1.8-2.0*	*2.0-2.2*	*2.2-2.4*	*2.4-2.6*	*2.6-2.8*	*2.8-3.0*	*3.0-3.2*	*3.2-3.4*
3.00	1.40E C0	1.38E C0	1.41E C0	1.56E C0	1.77E 00	2.22E 00	2.42E 00	3.35E 00	6.96E 00	3.07E 01	5.67E 02	2.99E 02
5.00	1.00E C0	1.00E C0	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	0.0
10.0	7.03E-C1	6.30E-C1	8.27E-01	3.45E-C1	2.25E-01	1.91E-01	1.66E-01	1.71E-01	7.49E-C2	1.26E-02	0.0	0.0
15.0	5.65E-C1	4.71E-C1	3.67E-01	1.79E-C1	5.63E-02	6.70E-02	5.35E-02	3.23E-02	1.46E-02	0.0	0.0	0.0
20.0	5.27E-C1	4.22E-C1	3.12E-01	1.36E-01	5.66E-02	2.93E-02	2.65E-02	9.43E-C3	1.73E-03	0.0	0.0	0.0
25.0	5.11E-C1	3.95E-C1	2.90E-01	1.14E-C1	4.25E-02	2.62E-02	1.51E-02	3.05E-C3	0.0	0.0	0.0	0.0
30.0	4.65E-C1	3.71E-C1	2.70E-01	9.89E-02	3.20E-02	1.77E-02	8.66E-03	9.25E-C4	0.0	0.0	0.0	0.0
50.0	4.37E-C1	2.68E-C1	2.04E-01	4.84E-C2	1.03E-C2	3.65E-03	1.04E-03	4.69E-05	0.0	0.0	0.0	0.0
100.	3.24E-C1	1.66E-C1	1.10E-01	2.05E-C2	3.20E-C3	4.99E-04	2.02E-05	0.0	0.0	0.0	0.0	0.0

ACR#FLUX= 1.31E C6 2.01E C7 1.32E C7 1.08E C7 9.90E C6 4.00E C6 2.99E C6 1.45E C6 1.67E C5 6.34E C3 6.20E C1 0.0

ENERGY LEVELS (MEV)	L - BANDS (MAGNETIC SHELL PARAMETER IN EARTH RADII) L - BANDS											
	3.4-3.6	*3.6-3.8*	*3.8-4.0*	*4.0-4.2*	*4.2-4.4*	*4.4-4.6*	*4.6-4.8*	*4.8-5.0*	*5.0-5.2*	*5.2-5.4*	*5.4-5.6*	*5.6-5.8*
3.00	2.34E C2	3.04E C1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

ACR#FLUX= 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0

ENERGY LEVELS (MEV)	L - BANDS (MAGNETIC SHELL PARAMETER IN EARTH RADII) L - BANDS											
	5.8-6.0	*6.0-6.2*	*6.2-6.4*	*6.4-6.6*	*6.6-6.8*	*6.8-7.0*	*7.0-7.2*	*7.2-7.4*	*7.4-7.6*	*7.6-7.8*	*7.8-8.0*	*8.0-8.2*
3.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

ACR#FLUX= 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0

Table 44

 ** CAPITAL FLUX STUDY WITH COMPOSITE PARTICLE ENVIRONMENTS: VETTES AFS, AF6, AP7; AF4, AFS, FOR SOLAR MAXIMUM *** UNIFLX OF 1973 **
 ** ELECTRON FLUXES EXPONENTIALLY DECAYED TO 1970. 0 WITH LIFETIMES: E.G. STASSINOPOLUSGP, VERZARU ** CUTOFF TIMES: **
 ** MAGNETIC COORDINATES B AND L COMPILED BY INVASA OF 1972 WITH ALLMAG, MODEL 4: CAIRNSKEYNEY 120-TERM PDGC 2/69 * TIME= 1974.0 **
 ** VEHICLE : SATS ** INCLINATION= 60DEG ** PERIGEE= 800KM ** APOGEE= 800KM ** B/L ORBIT TYPE: TD703E ** PERIOD= 1.681 **

 ELECTRONS *****
 ** SPECTRAL DISTRIBUTION : NORMALIZED BY FLUX OF ENERGY GREATER THAN .500 MEV **

ENERGY
LEVELS
>(MEV)
 1 - F A N D S (M A G N E T I C S H E L L F A R A M E T E R I N F A R T H R A D I I) L - B A N D S
 1.0-1.2 *1.2-1.4* *1.4-1.6* *1.6-1.8* *1.8-2.0* *2.0-2.2* *2.2-2.4* *2.4-2.6* *2.6-2.8* *2.8-3.0* *3.0-3.2* *3.2-3.4*

.0	5.26E 00	1.17E 01	3.55E 01	1.19E 02	1.89E 02	3.63E 02	6.27E 02	5.46E 02	6.06E 01	2.06E 01	1.23E 01	1.27E 01
.500	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00
1.00	5.34E -01	8.40E -02	1.56E -01	2.00E -01	6.32E -02	4.11E -02	4.27E -02	6.03E -02	1.79E -01	3.39E -01	3.68E -01	3.90E -01
1.50	2.45E -01	3.97E -02	1.08E -01	8.26E -02	1.49E -02	6.34E -03	5.85E -03	9.95E -03	6.35E -02	1.71E -01	1.80E -01	1.93E -01
2.00	1.73E -01	1.72E -02	5.84E -02	3.36E -02	4.20E -03	1.53E -03	1.12E -03	1.83E -03	2.48E -02	8.55E -02	8.84E -02	9.51E -02
2.50	5.68E -02	6.37E -03	2.48E -02	1.17E -02	1.09E -03	3.02E -04	1.45E -04	1.34E -04	6.06E -03	3.90E -02	3.83E -02	4.12E -02
3.00	1.73E -02	2.20E -03	7.61E -03	3.51E -03	2.38E -04	5.62E -05	0.0	0.0	3.84E -04	1.34E -02	1.42E -02	1.50E -02
4.00	1.56E -04	2.15E -05	7.37E -05	6.90E -05	1.17E -05	0.0	0.0	0.0	4.05E -04	3.56E -04	4.15E -04	0.0
5.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

NORMFLUX= 1.52E 07 1.24E 05 1.01E 05 1.66E 06 6.66E 07 1.41E 07 7.65E 06 3.74E 06 6.55E 05 1.39E 07 1.04E 05 1.40E 08

ENERGY
LEVELS
>(MEV)
 L - B A N D S (M A G N E T I C S H E L L F A R A M E T E R I N F A R T H R A D I I) L - B A N D S
 3.4-3.6 *3.6-3.8* *3.8-4.0* *4.0-4.2* *4.2-4.4* *4.4-4.6* *4.6-4.8* *4.8-5.0* *5.0-5.2* *5.2-5.4* *5.4-5.6* *5.6-5.8*

.0	1.50E 01	1.20E 01	4.61E 00	6.93E 00	6.76E 00	6.70E 00	6.97E 00	7.23E 00	7.41E 00	7.56E 00	7.68E 00	7.65E 00
.500	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00
1.00	3.57E -01	3.84E -01	3.64E -01	3.56E -01	3.56E -01	3.54E -01	3.44E -01	3.37E -01	3.30E -01	3.23E -01	3.14E -01	2.88E -01
1.50	1.58E -01	1.52E -01	1.65E -01	1.51E -01	1.41E -01	1.34E -01	1.26E -01	1.21E -01	1.15E -01	1.07E -01	9.99E -02	8.85E -02
2.00	9.51E -02	9.58E -02	7.88E -02	6.40E -02	5.61E -02	5.05E -02	4.62E -02	4.34E -02	4.01E -02	3.55E -02	3.18E -02	2.72E -02
2.50	4.51E -02	4.77E -02	3.88E -02	2.86E -02	2.26E -02	2.02E -02	1.71E -02	1.52E -02	1.32E -02	1.08E -02	9.00E -03	7.48E -03
3.00	1.75E -02	2.02E -02	1.75E -02	1.27E -02	9.36E -03	7.36E -03	5.46E -03	4.35E -03	3.57E -03	2.75E -03	2.20E -03	1.85E -03
4.00	5.22E -04	6.72E -04	5.50E -04	3.97E -04	2.59E -04	1.87E -04	1.32E -04	1.04E -04	8.17E -05	5.91E -05	4.50E -05	3.14E -05
5.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

NORMFLUX= 2.41E 08 2.36E 08 2.17E 05 2.00E 08 1.28E 08 1.58E 08 1.51E 08 8.32E 07 5.93E 07 8.55E 07 3.40E 07 4.74E 07

ENERGY
LEVELS
>(MEV)
 L - B A N D S (M A G N E T I C S H E L L F A R A M E T E R I N F A R T H R A D I I) L - B A N D S
 5.8-6.0 *6.0-6.2* *6.2-6.4* *6.4-6.6* *6.6-6.8* *6.8-7.0* *7.0-7.2* *7.2-7.4* *7.4-7.6* *7.6-7.8* *7.8-8.0* *8.0-OVF*

.0	7.54E 00	8.11E 00	9.73E 00	1.11E 01	1.37E 01	1.71E 01	1.80E 01	2.70E 01	4.28E 01	6.19E 01	0.0	4.36E 03
.500	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	0.0	1.00E 00
1.00	2.53E -01	2.40E -01	3.16E -01	2.33E -01	2.03E -01	1.62E -01	1.54E -01	1.31E -01	1.14E -01	1.03E -01	0.0	5.10E -02
1.50	7.63E -02	6.88E -02	6.42E -02	6.11E -02	4.93E -02	3.56E -02	3.35E -02	2.70E -02	2.24E -02	1.96E -02	0.0	4.79E -03
2.00	2.24E -02	1.97E -02	1.75E -02	1.60E -02	1.20E -02	7.66E -03	7.27E -03	5.53E -03	4.41E -03	3.71E -03	0.0	6.44E -04
2.50	6.02E -03	5.14E -03	4.25E -03	3.78E -03	2.67E -03	1.68E -03	1.54E -03	1.12E -03	8.77E -04	6.25E -04	0.0	0.0
3.00	1.83E -03	1.25E -03	9.25E -04	7.53E -04	5.17E -04	3.41E -04	3.17E -04	2.17E -04	6.41E -05	0.0	0.0	0.0
4.00	1.45E -05	5.55E -06	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

NORMFLUX= 1.51E 07 2.38E 07 4.75E 06 8.46E 06 7.71E 06 3.59E 06 6.68E 05 1.82E 06 1.41E 06 1.01E 06 0.0 3.59E 05

 ** ORBITAL FLUX STUDY WITH COMPOSITE PARTICLE ENVIRONMENTS: VETTES AFS, AF6, AF7; AE4, AE5, FOR SOLAR MAXIMUM *** UNIFLX OF 1973 **
 ** ELECTRON FLUXES EXPONENTIALLY DECAYED TO 1970. C WITH LIFETIMES: F.G.STASSINCPULCULSCP.VEZ2APIU ** CUTOFF TIMES: **
 ** MAGNETIC COORDINATES U AND L COMPUTED BY INVARA OF 1972 WITH ALLMAG, MODEL 4: CAINESSWEEFENY 120-TERM POGO 8/69 * TIME= 1974.0 **
 ** VEHICLE : SATS ** INCLINATION= 50DEG ** PERIGEE= 800KM ** APCGEE= 800KM ** B/L ORBIT TAPE: TD7036 ** PERIOD= 1.681 **

 ***** LCV ENERGY FRCTIONS *****
 ** SPECTRAL DISTRIBUTION : NORMALIZED BY FLUX OF ENERGY GREATER THAN .100 MEV **

ENERGY LEVELS >(MEV)	L - BANDS (MAGNETIC SHELL				PARAMETER IN EARTH				RADII) L - BANDS			
	1.0-1.2	*1.2-1.4*	*1.4-1.6*	*1.6-1.8*	*1.8-2.0*	*2.0-2.2*	*2.2-2.4*	*2.4-2.6*	*2.6-2.8*	*2.8-3.0*	*3.0-3.2*	*3.2-3.4*

.100	1.00E-00	1.00E-00	1.00E-00	1.00E-00	1.00E-00	1.00E-00	1.00E-00	1.00E-00	1.00E-00	1.00E-00	1.00E-00	1.00E-00
.500	8.48E-01	6.35E-01	6.35E-01	8.34E-01	5.43E-01	7.13E-01	4.83E-01	4.19E-01	4.13E-01	3.77E-01	3.38E-01	3.09E-01
.900	7.31E-01	7.16E-01	7.16E-01	7.16E-01	7.24E-01	5.53E-01	2.73E-01	2.07E-01	1.84E-01	1.45E-01	1.15E-01	9.63E-02
1.30	6.52E-01	6.66E-01	6.52E-01	6.91E-01	6.58E-01	5.15E-01	2.46E-01	1.76E-01	1.34E-01	9.18E-02	6.78E-02	5.42E-02
1.70	6.22E-01	6.20E-01	5.42E-01	6.39E-01	6.40E-01	4.47E-01	2.00E-01	1.29E-01	7.25E-02	3.73E-02	2.36E-02	1.71E-02
2.10	5.47E-01	5.47E-01	5.86E-01	5.81E-01	5.74E-01	3.75E-01	1.55E-01	8.71E-02	3.42E-02	1.23E-02	6.30E-03	4.08E-03
2.50	4.62E-01	5.12E-01	5.14E-01	5.25E-01	5.16E-01	3.14E-01	1.21E-01	5.92E-02	1.44E-02	4.17E-03	1.68E-03	9.74E-04
3.00	4.25E-01	4.62E-01	4.68E-01	4.81E-01	4.64E-01	2.64E-01	9.39E-02	4.04E-02	5.04E-03	1.44E-03	4.50E-04	2.33E-04
3.50	3.76E-01	4.28E-01	4.45E-01	4.38E-01	4.18E-01	2.21E-01	7.32E-02	2.76E-02	3.59E-03	5.11E-04	1.20E-04	5.55E-05

NORMFLUX= 4.59E-04 5.19E-07 5.58E-07 2.33E-07 2.63E-07 3.65E-07 3.47E-07 6.24E-07 6.10E-07 6.66E-07 6.46E-07 9.34E-07

ENERGY LEVELS >(MEV)	L - BANDS (MAGNETIC SHELL				PARAMETER IN EARTH				RADII) L - BANDS			
	2.4-3.6	*3.6-4.8*	*4.8-6.0*	*6.0-7.2*	*7.2-8.4*	*8.4-9.6*	*9.6-10.8*	*10.8-12.0*	*12.0-13.2*	*13.2-14.4*	*14.4-15.6*	*15.6-16.8*

.100	1.00E-00	1.00E-00	1.00E-00	1.00E-00	1.00E-00	1.00E-00	1.00E-00	1.00E-00	1.00E-00	1.00E-00	1.00E-00	1.00E-00
.500	2.69E-03	1.98E-03	1.98E-03	2.87E-03	9.22E-03	6.19E-03	4.88E-03	3.91E-03	3.59E-03	3.54E-03	3.49E-03	3.59E-03
.900	8.42E-03	3.95E-03	4.92E-03	5.64E-04	6.04E-05	3.84E-05	2.39E-05	1.51E-05	1.29E-05	1.20E-05	1.21E-05	1.26E-05
1.30	4.57E-02	1.77E-02	7.46E-03	1.87E-04	5.51E-05	2.42E-05	5.73E-07	2.44E-07	0.0	0.0	0.0	0.0
1.70	1.25E-02	7.61E-03	1.16E-03	7.53E-06	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.10	2.97E-03	5.02E-04	1.18E-04	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.50	6.54E-04	7.08E-05	1.12E-05	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.00	1.43E-04	5.23E-05	1.15E-06	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.50	2.62E-05	6.77E-07	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

NORMFLUX= 2.79E-07 9.44E-07 4.95E-07 9.08E-07 4.21E-06 2.00E-06 1.68E-06 2.60E-06 1.46E-06 1.45E-06 1.66E-06 9.88E-07

ENERGY LEVELS >(MEV)	L - BANDS (MAGNETIC SHELL				PARAMETER IN EARTH				RADII) L - BANDS			
	6.8-8.0	*8.0-9.2*	*9.2-10.4*	*10.4-11.6*	*11.6-12.8*	*12.8-14.0*	*14.0-15.2*	*15.2-16.4*	*16.4-17.6*	*17.6-18.8*	*18.8-20.0*	*20.0-21.2*

.100	1.00E-00	1.00E-00	1.00E-00	1.00E-00	1.00E-00	1.00E-00	1.00E-00	0.0	0.0	0.0	0.0	0.0
.500	1.48E-07	2.56E-03	1.40E-03	3.44E-03	4.14E-03	5.12E-03	2.54E-01	0.0	0.0	0.0	0.0	0.0
.900	1.13E-05	1.15E-05	1.01E-05	1.04E-05	1.13E-05	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.70	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.50	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.50	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

NORMFLUX= 5.34E-07 5.35E-07 1.74E-07 2.78E-07 1.50E-07 6.70E-05 6.20E-02 0.0 0.0 0.0 0.0 0.0

Table 46

 ** CREITAL FLUX STUDY WITH COMPOSITE PARTICLE ENVIRONMENTS: VETTER, A65, AP6, AP7, AP4, AP5, PFC SILAS MAXIMUM *** UNIFLX OF 1973 **
 ** ELECTRON FLUXES EXPONENTIALLY DECAYED TO 1970.0 WITH LIFETIMES: E.G. STASINOPOLUS, VERZATI, ** CUTOFF TIMES: **
 ** MAGNETIC COORDINATES B AND L COMPLETED BY INVARA OF 1973 WITH ALLMAG, MODEL 4: CAINSEWNEY 170-TERM 2066 5/69 * TIME= 1974.0 **
 ** VEHICLE : SAT-1 ** INCLINATION= 90DEC ** ALTITUDE= 800KM ** APCORR= 800KM ** G/L (H/L) TAPE: T07026 ** OFF (RD)= 1.641 **

 ** HIGH ENERGY POTIONS *****
 ** SPECIAL DISTRIBUTION : NORMALIZED BY FLUX OF ENERGY GREATER THAN 5.00 MEV **

ENERGY LEVELS >(MEV)	L - F A N C S (M A G N E T I C C O O R D I N A T E S) L - B A N D S											
	1.0-1.2	*1.2-1.4*	*1.4-1.6*	*1.6-1.8*	*1.8-2.0*	*2.0-2.2*	*2.2-2.4*	*2.4-2.6*	*2.6-2.8*	*2.8-3.0*	*3.0-3.2*	*3.2-3.4*
3.00	1.42E-00	1.35E-00	1.48E-00	1.55E-00	1.75E-00	2.12E-00	2.60E-00	3.78E-00	5.76E-00	2.87E-01	4.84E-02	7.47E-02
5.00	1.00E-00	1.00E-00	1.00E-00	1.00E-00	1.00E-00	1.00E-00	1.00E-00	1.00E-00	1.00E-00	1.00E-00	0.00	0.00
10.0	6.52E-01	6.77E-01	6.40E-01	6.37E-01	6.77E-01	1.03E-01	1.57E-01	1.08E-01	6.63E-02	3.27E-02	0.00	0.00
15.0	5.51E-01	4.57E-01	7.42E-01	1.40E-01	9.12E-02	6.75E-02	4.88E-02	2.67E-02	1.50E-02	0.00	0.00	0.00
20.0	5.12E-01	4.15E-01	7.47E-01	1.39E-01	6.06E-02	3.96E-02	2.31E-02	6.60E-03	4.98E-04	0.00	0.00	0.00
25.0	4.96E-01	3.93E-01	1.76E-01	1.12E-01	4.60E-02	2.53E-02	1.26E-02	1.60E-03	0.00	0.00	0.00	0.00
30.0	4.60E-01	2.65E-01	1.27E-01	9.57E-02	1.45E-02	1.78E-02	7.07E-03	2.54E-04	0.00	0.00	0.00	0.00
50.0	4.23E-01	2.89E-01	1.63E-01	5.15E-02	1.17E-02	3.70E-03	7.67E-04	0.00	0.00	0.00	0.00	0.00
100.0	3.06E-01	1.86E-01	1.05E-01	2.37E-02	7.81E-03	6.09E-04	0.00	0.00	0.00	0.00	0.00	0.00

ALPHAFLUX= 1.49E-06 1.74E-07 6.02E-07 7.21E-06 7.00E-06 4.53E-05 1.25E-06 6.45E-05 6.13E-04 4.23E-03 0.00 0.00

ENERGY LEVELS >(MEV)	L - F A N C S (M A G N E T I C C O O R D I N A T E S) L - B A N D S											
	2.4-2.6	*3.0-3.2*	*3.6-3.8*	*4.0-4.2*	*4.2-4.4*	*4.4-4.6*	*4.6-4.8*	*4.8-5.0*	*5.0-5.2*	*5.2-5.4*	*5.4-5.6*	*5.6-5.8*
3.00	6.67E-01	1.46E-01	1.00E-00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
20.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
25.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
30.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
50.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

ALPHAFLUX= 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

ENERGY LEVELS >(MEV)	L - F A N C S (M A G N E T I C C O O R D I N A T E S) L - B A N D S											
	6.5-6.8	*6.8-7.0*	*7.0-7.2*	*7.2-7.4*	*7.4-7.6*	*7.6-7.8*	*7.8-8.0*	*8.0-8.2*	*8.2-8.4*	*8.4-8.6*	*8.6-8.8*	*8.8-9.0*
3.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
20.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
25.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
30.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
50.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

ALPHAFLUX= 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

Table 47

 ** ORBITAL FLUX STUDY WITH COMPOSITE PARTICLE ENVIRONMENTS: VETTES AFS, AP6, AP7, AE4, AES, FOR SOLAR MAXIMUM **** UNIFLX OF 1973 **
 ** ELECTRON FLUXES EXPONENTIALLY DECAYED TO 1973.0 C WITH LIFETIMES: E.G. STASSINOPOLUCSEK, VERZARIU ** CUTOFF TIMES: **
 ** MAGNETIC COORDINATES E AND L COMPILED BY INVASA OF 1972 WITH ALLWAG, MCDL 4: CAINKSWENEY 120-TERM POGC 2/69 * TIME= 1974.0 **
 ** VEHICLE : SATS 13 INCLINATION= 50DEG ** PERIGEE= 200KM ** APOGEE= 800KM ** B/L ORBIT TAPE: TD7036 ** PERIOD= 1.681 **

 ***** ELECTRONS *****
 ** SPECTRAL DISTRIBUTION : NORMALIZED BY FLUX OF ENERGY GREATER THAN .500 MEV **

ENERGY LEVELS >(MEV)	L - BANDS (MAGNETIC SHELL)				PARAMETER				IN EARTH RADI I)				L - BANDS	
	1.0-1.2	*1.2-1.4*	*1.4-1.6*	*1.6-1.8*	*1.8-2.0*	*2.0-2.2*	*2.2-2.4*	*2.4-2.6*	*2.6-2.8*	*2.8-3.0*	*3.0-3.2*	*3.2-3.4*		
.0	5.41E 00	1.17E 01	2.74E 01	1.18E 02	1.82E 02	3.44E 02	6.51E 02	3.70E 02	5.51E 01	1.98E 01	1.29E 01	1.40E 01		
.500	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00		
1.00	5.26E-01	6.57E-02	2.06E-01	2.08E-01	6.95E-02	4.12E-02	4.51E-02	7.73E-02	2.15E-01	3.40E-01	3.64E-01	3.94E-01		
1.50	3.40E-01	3.57E-02	1.10E-01	8.68E-02	1.72E-02	6.56E-03	6.21E-03	1.56E-02	8.64E-02	1.70E-01	1.78E-01	1.95E-01		
2.00	1.65E-01	1.78E-02	6.15E-02	3.57E-02	4.95E-03	1.58E-03	1.10E-03	3.50E-03	3.83E-02	8.57E-02	8.75E-02	9.67E-02		
2.50	5.20E-02	6.76E-03	2.58E-02	1.25E-02	1.35E-03	3.22E-04	1.17E-04	4.08E-04	1.07E-02	3.91E-02	3.81E-02	4.24E-02		
3.00	1.50E-02	2.36E-03	7.86E-03	3.78E-03	3.11E-04	2.91E-05	0.0	0.0	8.86E-04	1.38E-02	1.42E-02	1.55E-02		
4.00	1.35E-04	2.38E-05	7.65E-05	7.65E-05	1.64E-06	0.0	0.0	0.0	0.0	3.99E-04	3.97E-04	4.27E-04		
5.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
NOFMLUX=	1.83E 07	1.08E 09	7.77E 06	1.13E 08	5.08E 07	1.80E 07	3.18E 06	1.58E 06	3.48E 06	7.17E 06	5.98E 07	1.26E 08		

ENERGY LEVELS >(MEV)	L - BANDS (MAGNETIC SHELL)				PARAMETER				IN EARTH RADI I)				L - BANDS	
	3.4-3.6	*3.6-3.8*	*3.8-4.0*	*4.0-4.2*	*4.2-4.4*	*4.4-4.6*	*4.6-4.8*	*4.8-5.0*	*5.0-5.2*	*5.2-5.4*	*5.4-5.6*	*5.6-5.8*		
.0	1.48E 01	1.15E 01	6.75E 00	6.92E 00	6.74E 00	6.69E 00	6.95E 00	7.24E 00	7.42E 00	7.56E 00	7.70E 00	7.64E 00		
.500	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00		
1.00	3.56E-01	2.83E-01	3.65E-01	3.55E-01	3.56E-01	3.54E-01	3.45E-01	3.36E-01	3.30E-01	3.23E-01	3.11E-01	2.84E-01		
1.50	1.58E-01	1.51E-01	1.70E-01	1.50E-01	1.41E-01	1.34E-01	1.27E-01	1.21E-01	1.15E-01	1.07E-01	9.81E-02	8.71E-02		
2.00	5.90E-02	5.56E-02	7.56E-02	6.37E-02	5.56E-02	5.10E-02	4.64E-02	4.33E-02	4.00E-02	3.55E-02	3.09E-02	2.67E-02		
2.50	4.82E-02	4.79E-02	3.95E-02	2.83E-02	2.33E-02	2.05E-02	1.73E-02	1.52E-02	1.32E-02	1.08E-02	8.66E-03	7.32E-03		
3.00	1.77E-02	2.04E-02	1.78E-02	1.25E-02	9.16E-03	7.49E-03	5.53E-03	4.36E-03	3.56E-03	2.75E-03	2.11E-03	1.81E-03		
4.00	5.21E-04	6.80E-04	6.00E-04	3.89E-04	2.82E-04	1.92E-04	1.34E-04	1.04E-04	8.14E-05	5.93E-05	4.22E-05	3.02E-05		
5.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
NOFMLUX=	1.17E 08	2.29E 08	1.56E 08	1.30E 08	2.35E 08	1.75E 08	1.14E 08	9.17E 07	6.08E 07	6.18E 07	8.14E 07	4.84E 07		

ENERGY LEVELS >(MEV)	L - BANDS (MAGNETIC SHELL)				PARAMETER				IN EARTH RADI I)				L - BANDS	
	5.8-6.0	*6.0-6.2*	*6.2-6.4*	*6.4-6.6*	*6.6-6.8*	*6.8-7.0*	*7.0-7.2*	*7.2-7.4*	*7.4-7.6*	*7.6-7.8*	*7.8-8.0*	*8.0-OVR*		
.0	7.65E 00	6.38E 00	5.90E 00	1.11E 01	1.35E 01	1.67E 01	2.15E 01	2.91E 01	4.05E 01	6.76E 01	1.35E 02	3.62E 03		
.500	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00		
1.00	2.54E-01	2.39E-01	2.35E-01	2.33E-01	2.07E-01	1.70E-01	1.44E-01	1.28E-01	1.15E-01	1.01E-01	8.68E-02	5.67E-02		
1.50	7.55E-02	6.75E-02	6.37E-02	6.11E-02	5.07E-02	3.83E-02	3.05E-02	2.60E-02	2.27E-02	1.91E-02	1.57E-02	6.96E-03		
2.00	2.24E-02	1.93E-02	1.73E-02	1.61E-02	1.24E-02	6.62E-03	6.45E-03	5.29E-03	4.49E-03	3.61E-03	2.85E-03	1.10E-03		
2.50	6.13E-03	4.96E-03	4.21E-03	3.80E-03	2.78E-03	1.85E-03	1.34E-03	1.06E-03	8.77E-04	6.12E-04	4.29E-04	0.0		
3.00	1.93E-03	1.18E-03	8.97E-04	7.58E-04	5.39E-04	3.72E-04	2.64E-04	2.04E-04	1.04E-04	0.0	0.0	0.0		
4.00	2.16E-05	2.10E-06	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
5.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
NOFMLUX=	2.48E 07	2.55E 07	1.55E 07	9.21E 06	1.20E 07	5.96E 06	8.88E 06	1.96E 06	6.01E 06	1.49E 06	5.15E 05	6.18E 05		

Table 49

 ** ORBITAL FLUX STUDY WITH COMPOSITE PARTICLE ENVIRONMENTS: VETTES AP5, AP6, AP7; AE4, AE5, FOR SOLAR MAXIMUM **** UNIFLX OF 1973 **
 ** ELECTRON FLUXES EXPONENTIALLY DECAYED TO 1970.0 WITH LIFETIMES: E.G. STASSINOPOLUS4P, VERZARIU ** CUTOFF TIMES: *****
 ** MAGNETIC COORDINATES B AND L COMPUTED BY INVARA OF 1972 WITH ALLMAG, MODEL 4: CAINGSWEEENEY 120-TERM POGO 8/69 * TIME= 1974.0 **
 ** VEHICLE : SATS. ** INCLINATION= 0DEG ** PERIGEE= 1000KM ** APOGEE= 1000KM ** B/L-ORBIT-TAPE: TD7372 ** PERIOD= 1.752 **

***** LOW ENERGY PROTONS *****
 ** SPECTRAL DISTRIBUTION : NORMALIZED BY FLUX OF ENERGY GREATER THAN .100 MEV **
 ** *****

ENERGY LEVELS >(MEV)	L - BANDS (MAGNETIC SHELL PARAMETER IN EARTH RADII) L - BANDS											
	1.0-1.2	*1.2-1.4*	*1.4-1.6*	*1.6-1.8*	*1.8-2.0*	*2.0-2.2*	*2.2-2.4*	*2.4-2.6*	*2.6-2.8*	*2.8-3.0*	*3.0-3.2*	*3.2-3.4*
.100	1.00E 00	1.00E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
.500	8.41E-01	8.35E-01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
.900	7.23E-01	7.12E-01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.10	6.87E-01	6.74E-01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.50	6.19E-01	6.05E-01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.00	5.45E-01	5.29E-01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.50	4.79E-01	4.63E-01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.00	4.22E-01	4.06E-01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.50	3.71E-01	3.56E-01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

NORMFLUX= 1.01E 08 1.87E 08 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0

ENERGY LEVELS >(MEV)	L - BANDS (MAGNETIC SHELL PARAMETER IN EARTH RADII) L - BANDS											
	3.4-3.6	*3.6-3.8*	*3.8-4.0*	*4.0-4.2*	*4.2-4.4*	*4.4-4.6*	*4.6-4.8*	*4.8-5.0*	*5.0-5.2*	*5.2-5.4*	*5.4-5.6*	*5.6-5.8*
.100	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
.500	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
.900	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.50	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.50	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.50	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

NORMFLUX= 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0

ENERGY LEVELS >(MEV)	L - BANDS (MAGNETIC SHELL PARAMETER IN EARTH RADII) L - BANDS											
	5.8-6.0	*6.0-6.2*	*6.2-6.4*	*6.4-6.6*	*6.6-6.8*	*6.8-7.0*	*7.0-7.2*	*7.2-7.4*	*7.4-7.6*	*7.6-7.8*	*7.8-8.0*	*8.0-OVR*
.100	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
.500	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
.900	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.50	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.50	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.50	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

NORMFLUX= 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0


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** ORBITAL FLUX STUDY WITH COMPOSITE PARTICLE ENVIRONMENTS: VETTES AP5, AP6, AP7; AE4, AE5, FOR SOLAR MAXIMUM *** UNIFLX OF 1973 **
** ELECTRON FLUXES EXPONENTIALLY DECAYED TO 1970, 0-WITH LIFETIMES: E.G., STASSINGFCUL056P, VERZARIU ** CUTOFF TIMES:
** MAGNETIC COORDINATES B AND L COMPUTED BY INVARA OF 1972 WITH ALLMAG, MODEL 4: CAINE$WFEENEY 120-TERM POGO 8/69 * TIME= 1974.0 **
** VEHICLE: SATS ** INCLINATION= 0DEG ** PERIGEE= 1000KM ** APOGEE= 1000KM ** B/L ORBIT TAPE: TD7372 ** PERIOD= 1.752 **
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** SPECTRAL DISTRIBUTION : NORMALIZED BY FLUX OF ENERGY GREATER THAN .500 MEV **

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[illegible][illegible]

Table 51

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** ORBITAL FLUX STUDY WITH COMPOSITE PARTICLE ENVIRONMENTS: VETTES AP5, AP6, AP7; AE4, AE5, FOR SOLAR MAXIMUM *** UNIFLX OF 1973 **
** ELECTRON FLUXES EXPONENTIALLY-DECAYED TO 1970.0 WITH LIFETIMES: E.G. STASSINOPOULOS & VERZARIU ** CUTOFF TIMES: **
** MAGNETIC COORDINATES B AND L COMPUTED BY INVARA OF 1972 WITH ALLMAG, MODEL 4: CAINESWEENEY 120-TERM PDGO 8/69 * TIME= 1974.0 **
** VEHICLE : SAYS ** INCLINATION= -30DEG ** PERIGEE= 1000KM ** APOGEE= 1000KM ** 8/L ORBIT TAPE: TD7372 ** PERIOD= 1.752 **
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*****--LOW--ENERGY PROTONS*****
** SPECTRAL DISTRIBUTION : NORMALIZED BY FLUX OF ENERGY GREATER THAN .100 MEV **
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ENERGY LEVELS >(MEV)	L - BANDS (MAGNETIC SHELL PARAMETER IN EARTH RADII) L - BANDS											
	1.0-1.2	*1.2-1.4*	*1.4-1.6*	*1.6-1.8*	*1.8-2.0*	*2.0-2.2*	*2.2-2.4*	*2.4-2.6*	*2.6-2.8*	*2.8-3.0*	*3.0-3.2*	*3.2-3.4*
.100	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	0.0	0.0	0.0	0.0	0.0	0.0
.500	8.49E-01	8.35E-01	8.35E-01	8.34E-01	8.34E-01	8.39E-01	0.0	0.0	0.0	0.0	0.0	0.0
.900	7.31E-01	7.19E-01	7.20E-01	7.19E-01	7.18E-01	8.80E-01	0.0	0.0	0.0	0.0	0.0	0.0
1.10	6.90E-01	6.94E-01	6.96E-01	6.93E-01	6.88E-01	8.49E-01	0.0	0.0	0.0	0.0	0.0	0.0
1.50	6.16E-01	6.48E-01	6.51E-01	6.45E-01	6.34E-01	7.90E-01	0.0	0.0	0.0	0.0	0.0	0.0
2.00	5.37E-01	5.95E-01	6.98E-01	5.99E-01	5.72E-01	7.24E-01	0.0	0.0	0.0	0.0	0.0	0.0
2.50	4.70E-01	5.47E-01	5.51E-01	5.41E-01	5.17E-01	6.64E-01	0.0	0.0	0.0	0.0	0.0	0.0
3.00	4.13E-01	5.04E-01	5.08E-01	4.96E-01	4.68E-01	6.10E-01	0.0	0.0	0.0	0.0	0.0	0.0
3.50	3.63E-01	4.65E-01	4.68E-01	4.55E-01	4.24E-01	5.61E-01	0.0	0.0	0.0	0.0	0.0	0.0
NORMFLUX=	1.32E 07	3.23E 08	1.06E 08	7.11E 07	3.49E 07	4.75E 02	0.0	0.0	0.0	0.0	0.0	0.0

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Table 52

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*****
** ORBITAL FLUX STUDY WITH COMPOSITE PARTICLE ENVIRONMENTS: VETTES AP5, AP6, AP7; AE4, AE5, FOR SOLAR MAXIMUM **** UNIFLX OF 1973 **
** ELECTRON FLUXES EXPONENTIALLY DECAYED TO 1970. 0 WITH LIFETIMES: E-G.STASSINOPGULOSC6.VEZARIU.** CUTOFF TIMES: **
** MAGNETIC COORDINATES B AND L COMPUTED BY INVARA OF 1972 WITH ALLMAG, MODEL 4: CAINE/SWEENEY 120-TERM PDGD 8/69 * TIME= 1974.0 **
** VEHICLE : SATS ** INCLINATION= 30DEG ** PERIGEE= 1000KM ** APOGEE= 1000KM ** B/L ORBIT TAPE: TD7372 ** PERIOD= 1.752 **
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***** HIGH ENERGY PROTONS *****
 ** SPECTRAL DISTRIBUTION ; NORMALIZED BY FLUX OF ENERGY GREATER THAN 5.00 MEV **

ENERGY LEVELS >(MEV)	L - BANDS (MAGNETIC SHELL PARAMETER IN EARTH RADII) L - BANDS											
	1.0-1.2	*1.2-1.4*	*1.4-1.6*	*1.6-1.8*	*1.8-2.0*	*2.0-2.2*	*2.2-2.4*	*2.4-2.6*	*2.6-2.8*	*2.8-3.0*	*3.0-3.2*	*3.2-3.4*
3.00	1.43E 00	1.35E 00	1.42E 00	1.55E 00	1.71E 00	1.38E 00	0.0	0.0	0.0	0.0	0.0	0.0
5.00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	0.0	0.0	0.0	0.0	0.0	0.0
10.0	7.02E-01	5.87E-01	4.79E-01	3.30E-01	2.39E-01	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15.0	5.63E-01	4.21E-01	3.05E-01	1.67E-01	9.53E-02	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20.0	5.20E-01	3.69E-01	2.62E-01	1.26E-01	6.43E-02	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25.0	5.10E-01	3.41E-01	2.41E-01	1.06E-01	4.94E-02	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30.0	4.94E-01	3.14E-01	2.23E-01	8.82E-02	3.80E-02	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50.0	4.36E-01	2.30E-01	1.63E-01	4.36E-02	1.33E-02	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100.	3.15E-01	1.50E-01	9.50E-02	1.97E-02	4.29E-03	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NORMFLUX=	3.81E 06	1.21E 08	3.80E 07	2.26E 07	9.54E 06	2.09E 02	0.0	0.0	0.0	0.0	0.0	0.0

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 ** ORBITAL FLUX STUDY WITH COMPOSITE PARTICLE ENVIRONMENTS: VETTES AP5, AP6, AP7; AE4, AE5, FOR SOLAR MAXIMUM **** UNIFLX OF 1973 **
 ** ELECTRON FLUXES EXPONENTIALLY DECAYED TO 1970-0 WITH LIFETIMES: E.G. STASSINOPoulos VERZARIO ** CUTOFF TIMES: **
 ** MAGNETIC COORDINATES B AND L COMPUTED BY INVARA OF 1972 WITH ALLMAG, MODEL 4: CAINESENEY 120-TERM POGO 8/69 * TIME= 1974.0 **
 ** VEHICLE : SATS ** INCLINATION= 30DEG ** PERIGEE= 1000KM ** APOGEE= 1000KM ** S/L ORBIT TYPE: TD7373 ** PERIOD= 1.752 **

 ** ELECTRONS **
 ** SPECTRAL DISTRIBUTION : NORMALIZED BY FLUX OF ENERGY GREATER THAN .500 MEV **

ENERGY LEVELS >(MEV)	L - BANDS (MAGNETIC SHELL PARAMETER IN EARTH RADII) L - BANDS											
	1.0-1.2	*1.2-1.4*	*1.4-1.6*	*1.6-1.8*	*1.8-2.0*	*2.0-2.2*	*2.2-2.4*	*2.4-2.6*	*2.6-2.8*	*2.8-3.0*	*3.0-3.2*	*3.2-3.4*
.0	5.39E 00	1.10E 01	2.53E 01	1.17E 02	1.75E 02	0.0	0.0	0.0	0.0	0.0	0.0	0.0
.500	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.00	5.29E-01	8.82E-02	2.06E-01	1.98E-01	7.14E-02	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.50	3.43E-01	4.12E-02	1.09E-01	8.07E-02	1.78E-02	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.00	1.68E-01	1.86E-02	6.08E-02	3.26E-02	5.12E-03	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.50	5.36E-02	6.95E-03	2.50E-02	1.14E-02	1.37E-03	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.00	1.59E-02	2.38E-03	7.68E-03	3.42E-03	3.05E-04	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.00	1.67E-04	2.29E-05	7.46E-05	6.77E-05	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

NORMFLUX= 4.30E 07 1.04E 10 2.60E 09 3.28E 08 7.35E 07 0.0 0.0 0.0 0.0 0.0 0.0 0.0

ENERGY LEVELS >(MEV)	L - BANDS (MAGNETIC SHELL PARAMETER IN EARTH RADII) L - BANDS											
	3.4-3.6	*3.6-3.8*	*3.8-4.0*	*4.0-4.2*	*4.2-4.4*	*4.4-4.6*	*4.6-4.8*	*4.8-5.0*	*5.0-5.2*	*5.2-5.4*	*5.4-5.6*	*5.6-5.8*
.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
.500	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.50	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.50	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

NORMFLUX= 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0

ENERGY LEVELS >(MEV)	L - BANDS (MAGNETIC SHELL PARAMETER IN EARTH RADII) L - BANDS											
	5.8-6.0	*6.0-6.2*	*6.2-6.4*	*6.4-6.6*	*6.6-6.8*	*6.8-7.0*	*7.0-7.2*	*7.2-7.4*	*7.4-7.6*	*7.6-7.8*	*7.8-8.0*	*8.0-QVR*
.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
.500	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.50	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.50	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

NORMFLUX= 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0

Table 54

 ** ORBITAL FLUX STUDY WITH COMPOSITE PARTICLE ENVIRONMENTS: VETTES AP5, AP6, AP7; AE4, AE5, FOR SOLAR MAXIMUM *** UNIFLX OF 1973 **
 ** ELECTRON FLUXES EXPONENTIALLY DECAYED TO 1970. 0 WITH LIFETIMES: E.G. STASSINOPOULOS 6P. VERZARIU ** CUTOFF TIMES: **
 ** MAGNETIC COORDINATES B AND L COMPUTED BY INVVAR OF 1972 WITH ALLMAG, MODEL 4: CAINE & SWEENEY 120-TERM PDGO 8/69 * TIME= 1974.0 **
 ** VEHICLE : SATS ** INCLINATION= 80DEG ** PERIGEE= 1000KM ** APOGEE= 1000KM ** B/L ORBIT TAPE: TD7372 ** PERIOD= 1.752 **

***** LOW ENERGY PROTONS *****

** SPECTRAL DISTRIBUTION : NORMALIZED BY FLUX OF ENERGY GREATER THAN .100 MEV **

ENERGY LEVELS >(MEV)	L - BANDS (MAGNETIC SHELL PARAMETER IN EARTH RADII) L - BANDS											
	1.0-1.2	*1.2-1.4*	*1.4-1.6*	*1.6-1.8*	*1.8-2.0*	*2.0-2.2*	*2.2-2.4*	*2.4-2.6*	*2.6-2.8*	*2.8-3.0*	*3.0-3.2*	*3.2-3.4*
.100	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00
.500	8.54E-01	8.35E-01	8.35E-01	8.34E-01	8.44E-01	7.53E-01	4.90E-01	4.16E-01	4.10E-01	3.79E-01	3.36E-01	3.14E-01
.900	7.39E-01	7.19E-01	7.20E-01	7.20E-01	7.32E-01	6.00E-01	2.80E-01	2.05E-01	1.84E-01	1.46E-01	1.13E-01	9.90E-02
1.10	7.00E-01	6.92E-01	6.96E-01	6.96E-01	7.04E-01	5.58E-01	2.53E-01	1.74E-01	1.37E-01	9.30E-02	6.59E-02	5.60E-02
1.50	6.29E-01	6.43E-01	6.51E-01	6.51E-01	6.50E-01	4.82E-01	2.07E-01	1.27E-01	7.69E-02	3.76E-02	2.25E-02	1.79E-02
2.00	5.52E-01	5.88E-01	5.99E-01	5.99E-01	5.90E-01	4.02E-01	1.61E-01	8.69E-02	3.81E-02	1.22E-02	5.85E-03	4.33E-03
2.50	4.86E-01	5.38E-01	5.51E-01	5.52E-01	5.37E-01	3.35E-01	1.25E-01	5.96E-02	1.92E-02	3.98E-03	1.53E-03	1.05E-03
3.00	4.29E-01	4.93E-01	5.08E-01	5.09E-01	4.88E-01	2.80E-01	9.80E-02	4.10E-02	9.90E-03	1.30E-03	4.00E-04	2.54E-04
3.50	3.80E-01	4.53E-01	4.68E-01	4.69E-01	4.44E-01	2.34E-01	7.67E-02	2.83E-02	5.18E-03	4.29E-04	1.03E-04	6.05E-05

NORMFLUX= 6.35E 06 1.38E 08 7.85E 07 6.41E 07 4.98E 07 7.25E 07 1.25E 08 1.07E 08 2.04E 08 2.02E 08 1.52E 08 1.26E 08

ENERGY LEVELS >(MEV)	L - BANDS (MAGNETIC SHELL PARAMETER IN EARTH RADII) L - BANDS											
	3.4-3.6	*3.6-3.8*	*3.8-4.0*	*4.0-4.2*	*4.2-4.4*	*4.4-4.6*	*4.6-4.8*	*4.8-5.0*	*5.0-5.2*	*5.2-5.4*	*5.4-5.6*	*5.6-5.8*
.100	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00
.500	2.62E-01	2.09E-01	1.32E-01	2.83E-02	9.49E-03	6.25E-03	5.30E-03	4.09E-03	3.46E-03	3.53E-03	3.48E-03	3.54E-03
.900	6.92E-02	4.42E-02	1.93E-02	9.96E-04	9.66E-05	3.92E-05	2.82E-05	1.69E-05	1.20E-05	1.24E-05	1.21E-05	1.26E-05
1.10	3.58E-02	2.04E-02	7.60E-03	1.99E-04	9.54E-06	2.86E-06	1.46E-06	0.0	0.0	0.0	0.0	0.0
1.50	9.68E-03	4.37E-03	1.23E-03	7.81E-06	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.00	1.91E-03	6.44E-04	1.32E-04	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.50	3.83E-04	9.48E-05	1.41E-05	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.00	7.77E-05	8.56E-06	1.38E-06	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.50	1.52E-05	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

NORMFLUX= 3.53E 08 4.65E 07 2.17E 08 1.89E 08 2.76E 08 8.92E 08 2.84E 08 3.79E 08 2.63E 08 1.32E 08 1.88E 08 8.62E 07

ENERGY LEVELS >(MEV)	L - BANDS (MAGNETIC SHELL PARAMETER IN EARTH RADII) L - BANDS											
	5.8-6.0	*6.0-6.2*	*6.2-6.4*	*6.4-6.6*	*6.6-6.8*	*6.8-7.0*	*7.0-7.2*	*7.2-7.4*	*7.4-7.6*	*7.6-7.8*	*7.8-8.0*	*8.0-8.2*
.100	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	0.0	0.0	0.0	0.0	0.0	0.0
.500	3.52E-03	3.43E-03	3.51E-03	3.51E-03	4.04E-03	2.06E-01	0.0	0.0	0.0	0.0	0.0	0.0
.900	1.24E-05	1.14E-05	9.48E-06	1.16E-05	1.34E-05	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.50	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.50	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.50	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

NORMFLUX= 7.50E 07 1.07E 08 2.28E 07 5.62E 07 1.37E 07 1.53E 03 0.0 0.0 0.0 0.0 0.0 0.0

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*****--HIGH ENERGY PROTONS*****
** SPECTRAL DISTRIBUTION : NORMALIZED BY FLUX OF ENERGY GREATER THAN 5.00 MEV **
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ENERGY LEVELS >(MEV)	L - BANDS (MAGNETIC SHELL PARAMETER IN EARTH RADI I) L - BANDS											
	1.0-1.2	*1.2-1.4*	*1.4-1.6*	*1.6-1.8*	*1.8-2.0*	*2.0-2.2*	*2.2-2.4*	*2.4-2.6*	*2.6-2.8*	*2.8-3.0*	*3.0-3.2*	*3.2-3.4*
3.00	1.41E 00	1.35E 00	1.41E 00	1.55E 00	1.74E 00	2.15E 00	2.57E 00	3.70E 00	7.18E 00	2.37E 01	9.26E 02	5.33E 02
5.00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	0.0
10.0	7.08E-01	5.97E-01	4.86E-01	3.18E-01	2.14E-01	1.91E-01	1.62E-01	1.11E-01	7.68E-02	1.27E-02	0.0	0.0
15.0	5.70E-01	4.32E-01	2.13E-01	1.58E-01	8.09E-02	6.69E-02	5.16E-02	2.78E-02	1.50E-02	0.0	0.0	0.0
20.0	5.33E-01	3.81E-01	2.70E-01	1.19E-01	5.27E-02	3.91E-02	2.52E-02	9.39E-03	2.58E-03	0.0	0.0	0.0
25.0	5.17E-01	3.52E-01	2.50E-01	9.91E-02	3.94E-02	2.61E-02	1.41E-02	3.93E-03	0.0	0.0	0.0	0.0
30.0	5.01E-01	3.25E-01	2.31E-01	8.28E-02	2.94E-02	1.75E-02	7.98E-03	1.68E-03	0.0	0.0	0.0	0.0
50.0	4.43E-01	2.39E-01	1.71E-01	4.09E-02	9.29E-03	3.55E-03	9.07E-04	1.52E-04	0.0	0.0	0.0	0.0
100.	3.26E-01	1.56E-01	1.00E-01	1.89E-02	3.02E-03	6.71E-04	1.37E-05	0.0	0.0	0.0	0.0	0.0
NORMFLUX=	1.93E 06	5.03E 07	2.83E 07	2.10E 07	1.40E 07	9.45E 06	4.78E 06	1.18E 06	2.81E 05	1.11E 04	6.55E 01	0.0

[illegible][illegible]

 ** ORBITAL FLUX STUDY WITH COMPOSITE PARTICLE ENVIRONMENTS: VETTES AP5, AP6, AP7; AE4, AE5, FOR SOLAR MAXIMUM *** UNIFLX OF 1973 **
 ** ELECTRON FLUXES EXPONENTIALLY DECAYED TO 1979.0 WITH LIFETIMES: E.G. STAGSINOPULOS&P-VERZARIU ** CUTOFF TIMES: **
 ** MAGNETIC COORDINATES B AND L COMPUTED BY INVARA OF 1972 WITH ALLMAG. MODEL 4: CAINESWENEY 120-TERM POGO 8/69 * TIME= 1974.0 **
 ** VEHICLE : SATS ** INCLINATION= 60DEG ** PERIGEE= 1000KM ** APOGEE= 1000KM ** B/L ORBIT TYPE: TD7372 ** PERIOD= 1.758 **

 ELECTRONS *****
 ** SPECTRAL DISTRIBUTION : NORMALIZED BY FLUX OF ENERGY GREATER THAN .500 MEV **

ENERGY LEVELS >(MEV)	L - BANDS (MAGNETIC SHELL PARAMETER IN EARTH RADII) L - BANDS											
	1.0-1.2	*1.2-1.4*	*1.4-1.6*	*1.6-1.8*	*1.8-2.0*	*2.0-2.2*	*2.2-2.4*	*2.4-2.6*	*2.6-2.8*	*2.8-3.0*	*3.0-3.2*	*3.2-3.4*
.0	5.06E 00	1.12E 01	2.37E 01	1.13E 02	1.81E 02	3.30E 02	6.36E 02	3.04E 02	6.02E 01	2.16E 01	1.24E 01	1.30E 01
.500	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00
1.00	5.41E-01	8.44E-02	1.95E-01	1.99E-01	6.21E-02	4.11E-02	4.44E-02	7.56E-02	1.97E-01	3.39E-01	3.66E-01	3.91E-01
1.50	3.57E-01	4.02E-02	1.02E-01	8.22E-02	1.44E-02	6.50E-03	6.09E-03	1.47E-02	7.43E-02	1.72E-01	1.80E-01	1.93E-01
2.00	1.79E-01	1.75E-02	5.74E-02	3.34E-02	4.06E-03	1.57E-03	1.11E-03	3.10E-03	3.29E-02	8.73E-02	8.81E-02	9.56E-02
2.50	5.96E-02	6.16E-03	2.41E-02	1.16E-02	1.04E-03	3.16E-04	1.19E-04	4.07E-04	9.21E-03	3.94E-02	3.82E-02	4.15E-02
3.00	1.84E-02	2.01E-03	7.65E-03	3.48E-03	2.18E-04	2.34E-05	0.0	0.0	8.64E-04	1.31E-02	1.41E-02	1.81E-02
4.00	2.07E-04	1.95E-05	7.14E-05	6.88E-05	7.48E-07	0.0	0.0	0.0	0.0	4.04E-04	3.96E-04	4.18E-04
5.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NORMFLUX=	2.05E 07	3.78E 09	2.25E 09	2.95E 08	8.90E 07	3.66E 07	1.23E 07	2.81E 06	1.40E 06	1.23E 07	1.35E 08	2.22E 08

ENERGY LEVELS >(MEV)	L - BANDS (MAGNETIC SHELL PARAMETER IN EARTH RADII) L - BANDS											
	3.4-3.6	*3.6-3.8*	*3.8-4.0*	*4.0-4.2*	*4.2-4.4*	*4.4-4.6*	*4.6-4.8*	*4.8-5.0*	*5.0-5.2*	*5.2-5.4*	*5.4-5.6*	*5.6-5.8*
.0	1.49E 01	1.19E 01	8.64E 00	6.91E 00	6.78E 00	6.70E 00	6.87E 00	7.19E 00	7.43E 00	7.57E 00	7.69E 00	7.65E 00
.500	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00
1.00	3.96E-01	3.83E-01	3.64E-01	3.55E-01	3.56E-01	3.54E-01	3.48E-01	3.38E-01	3.29E-01	3.23E-01	3.10E-01	2.88E-01
1.50	1.98E-01	1.91E-01	1.69E-01	1.50E-01	1.42E-01	1.34E-01	1.28E-01	1.22E-01	1.14E-01	1.07E-01	9.80E-02	8.87E-02
2.00	9.90E-02	9.56E-02	7.89E-02	6.32E-02	5.67E-02	5.07E-02	4.73E-02	4.38E-02	3.95E-02	3.53E-02	3.09E-02	2.73E-02
2.50	4.51E-02	4.79E-02	3.90E-02	2.81E-02	2.40E-02	2.03E-02	1.80E-02	1.55E-02	1.29E-02	1.07E-02	8.70E-03	7.61E-03
3.00	1.75E-02	2.03E-02	1.76E-02	1.23E-02	9.61E-03	7.41E-03	5.96E-03	4.54E-03	3.47E-03	2.71E-03	2.13E-03	1.85E-03
4.00	5.24E-04	6.79E-04	5.93E-04	3.81E-04	2.69E-04	1.88E-04	1.45E-04	1.08E-04	7.88E-05	5.81E-05	4.23E-05	3.19E-05
5.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NORMFLUX=	3.37E 08	1.81E 08	3.92E 08	1.60E 08	1.56E 08	3.38E 08	1.18E 08	1.46E 08	8.40E 07	4.71E 07	7.31E 07	3.44E 07

ENERGY LEVELS >(MEV)	L - BANDS (MAGNETIC SHELL PARAMETER IN EARTH RADII) L - BANDS											
	5.8-6.0	*6.0-6.2*	*6.2-6.4*	*6.4-6.6*	*6.6-6.8*	*6.8-7.0*	*7.0-7.2*	*7.2-7.4*	*7.4-7.6*	*7.6-7.8*	*7.8-8.0*	*8.0-OVR*
.0	7.56E 00	8.06E 00	9.72E 00	1.09E 01	1.32E 01	1.66E 01	2.16E 01	2.80E 01	4.52E 01	6.46E 01	1.03E 02	3.80E 03
.500	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.80E 00
1.00	2.55E-01	2.40E-01	2.35E-01	2.33E-01	2.13E-01	1.66E-01	1.44E-01	1.30E-01	1.12E-01	1.02E-01	9.16E-02	5.82E-02
1.50	7.60E-02	6.89E-02	6.41E-02	6.14E-02	5.28E-02	3.71E-02	3.05E-02	2.65E-02	2.17E-02	1.92E-02	1.67E-02	8.11E-03
2.00	2.26E-02	1.98E-02	1.75E-02	1.62E-02	1.31E-02	8.28E-03	6.47E-03	5.42E-03	4.24E-03	3.61E-03	3.04E-03	1.28E-03
2.50	6.09E-03	5.17E-03	4.27E-03	3.84E-03	2.96E-03	1.77E-03	1.34E-03	1.09E-03	7.89E-04	6.01E-04	3.49E-04	8.0
3.00	1.54E-03	1.27E-03	9.15E-04	7.74E-04	5.70E-04	3.57E-04	2.68E-04	2.08E-04	0.0	0.0	0.0	0.0
4.00	2.20E-05	9.02E-06	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NORMFLUX=	2.65E 07	3.74E 07	1.01E 07	1.73E 07	1.26E 07	3.78E 06	1.99E 06	2.12E 06	2.98E 05	6.80E 05	1.11E 06	4.52E 05

 ** ORBITAL FLUX STUDY WITH COMPOSITE PARTICLE ENVIRONMENTS: VETTES AP5, AP6, AP7; AE4, AE5, FOR SOLAR MAXIMUM *** UNIFLX OF 1973 **
 ** ELECTRON FLUXES EXPONENTIALLY DECAYED TO 1970, 0 WITH LIFETIMES: E-6, STAGINOPUL-856P-VERZARIU ** CUTOFF TIME: **
 ** MAGNETIC COORDINATES B AND L COMPUTED BY INVARA OF 1972 WITH ALLMAG, MODEL 4; CAINCWEEENY 120-TERM POGO 8/89 * TIME= 1974.0 **
 ** VEHICLE : SATS ** INCLINATION= 90DEG ** PERIGEE= 1000KM ** APOGEE= 1000KM ** S/L ORBIT TIME: 107372 ** PERIOD= 1.758 **

***** LOW ENERGY PROTONS *****
 ** SPECTRAL DISTRIBUTION : NORMALIZED BY FLUX OF ENERGY GREATER THAN .100 MEV **

ENERGY LEVELS >(MEV)	L - BANDS (MAGNETIC SHELL PARAMETER IN EARTH RADII) L - BANDS											
	1.0-1.2	*1.2-1.4*	*1.4-1.6*	*1.6-1.8*	*1.8-2.0*	*2.0-2.2*	*2.2-2.4*	*2.4-2.6*	*2.6-2.8*	*2.8-3.0*	*3.0-3.2*	*3.2-3.4*
.100	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00
.500	8.50E-01	8.35E-01	8.35E-01	8.34E-01	8.43E-01	7.64E-01	5.10E-01	4.20E-01	4.00E-01	3.73E-01	3.38E-01	3.00E-01
.900	7.33E-01	7.19E-01	7.20E-01	7.20E-01	7.32E-01	6.19E-01	3.01E-01	2.09E-01	1.81E-01	1.41E-01	1.13E-01	1.83E-01
1.10	6.93E-01	6.93E-01	6.96E-01	6.95E-01	7.08E-01	5.76E-01	2.73E-01	1.79E-01	1.31E-01	8.91E-02	6.63E-02	5.84E-02
1.50	6.21E-01	6.44E-01	6.51E-01	6.49E-01	6.55E-01	4.99E-01	2.25E-01	1.31E-01	7.04E-02	3.56E-02	2.28E-02	1.90E-02
2.00	5.43E-01	5.88E-01	5.99E-01	5.94E-01	5.98E-01	4.18E-01	1.77E-01	9.00E-02	3.32E-02	1.18E-02	4.80E-03	4.60E-03
2.50	4.77E-01	5.39E-01	5.52E-01	5.48E-01	5.47E-01	3.50E-01	1.40E-01	6.18E-02	1.61E-02	3.78E-03	1.58E-03	1.14E-03
3.00	4.20E-01	4.95E-01	5.08E-01	5.04E-01	5.01E-01	2.80E-01	1.11E-01	4.26E-02	8.01E-03	1.84E-03	4.17E-04	2.84E-04
3.50	3.70E-01	4.54E-01	4.69E-01	4.64E-01	4.59E-01	2.45E-01	8.79E-02	2.94E-02	4.09E-03	4.29E-04	1.08E-04	6.90E-05
NORMFLUX=	6.30E 06	1.19E 08	5.72E 07	4.69E 07	4.43E 07	4.31E 07	6.20E 07	1.02E 08	1.13E 08	1.11E 08	1.08E 08	1.01E 08

ENERGY LEVELS >(MEV)	L - BANDS (MAGNETIC SHELL PARAMETER IN EARTH RADII) L - BANDS											
	3.4-3.6	*3.6-3.8*	*3.8-4.0*	*4.0-4.2*	*4.2-4.4*	*4.4-4.6*	*4.6-4.8*	*4.8-5.0*	*5.0-5.2*	*5.2-5.4*	*5.4-5.6*	*5.6-5.8*
.100	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00
.500	2.82E-01	2.18E-01	1.61E-01	3.06E-02	8.14E-03	6.22E-03	5.14E-03	3.97E-03	3.58E-03	3.52E-03	3.52E-03	3.81E-03
.900	7.99E-02	4.79E-02	2.62E-02	1.16E-03	6.87E-05	3.90E-05	2.66E-05	1.58E-05	1.28E-05	1.24E-05	1.24E-05	1.31E-05
1.10	4.28E-02	2.25E-02	1.06E-02	2.43E-04	6.08E-06	2.41E-06	1.38E-06	3.12E-07	0.0	0.0	0.0	0.0
1.50	1.23E-02	4.95E-03	1.72E-03	1.16E-05	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.00	2.60E-03	7.52E-04	1.78E-04	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.50	5.52E-04	1.14E-04	1.82E-05	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.00	1.17E-04	1.53E-05	1.51E-06	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.50	2.38E-05	1.86E-06	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NORMFLUX=	1.18E 08	1.43E 08	8.83E 07	3.74E 08	4.46E 08	3.87E 08	3.64E 08	4.38E 08	3.00E 08	2.44E 08	2.60E 08	9.88E 07

ENERGY LEVELS >(MEV)	L - BANDS (MAGNETIC SHELL PARAMETER IN EARTH RADII) L - BANDS											
	5.8-6.0	*6.0-6.2*	*6.2-6.4*	*6.4-6.6*	*6.6-6.8*	*6.8-7.0*	*7.0-7.2*	*7.2-7.4*	*7.4-7.6*	*7.6-7.8*	*7.8-8.0*	*8.0-8.2*
.100	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	0.0	0.0	0.0	0.0	0.0
.500	3.61E-03	3.41E-03	3.57E-03	3.47E-03	4.34E-03	5.00E-03	4.72E-03	0.0	0.0	0.0	0.0	0.0
.900	1.30E-05	1.14E-05	1.15E-05	1.04E-05	0.0	1.46E-05	0.0	0.0	0.0	0.0	0.0	0.0
1.10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.50	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.50	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.50	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NORMFLUX=	1.41E 08	1.07E 08	4.72E 07	5.47E 07	9.87E 06	6.99E 06	7.83E 02	0.0	0.0	0.0	0.0	0.0


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** ORBITAL FLUX STUDY WITH COMPOSITE PARTICLE ENVIRONMENTS: VETTES AP5, AP6, AP7; AE4, AE5, FOR SOLAR MAXIMUM **** UNIFLX OF 1973 **
** ELECTRON FLUXES EXPONENTIALLY DECAYED TO 1970, 0 WITH LIFETIMES: E.G. STASSINOPoulos & P. VERZARIU ** CUTOFF TIMES: **
** MAGNETIC COORDINATES B AND L COMPUTED BY INVARG OF 1972 WITH ALLMAG, MODEL 4: CAIN65WENEY 120-TERM POGO 8/69 * TIME= 1974.0 **
** VEHICLE: 1. SATS: **** INCLINATION= 90DEG ** PERIGEE= 1000KM ** APOGEE= 1000KM ** S/L ORBIT TAPE: TD7372 ** PERIOD= 1.752 **

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***** HIGH ENERGY PROTONS *****
** SPECTRAL DISTRIBUTION : NORMALIZED BY FLUX OF ENERGY GREATER THAN 5.00 MEV **
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ENERGY LEVELS >(MEV)	L - BANDS (MAGNETIC SHELL PARAMETER IN EARTH RADII) L - BANDS											
	1.0-1.2	*1.2-1.4*	*1.4-1.6*	*1.6-1.8*	*1.8-2.0*	*2.0-2.2*	*2.2-2.4*	*2.4-2.6*	*2.6-2.8*	*2.8-3.0*	*3.0-3.2*	*3.2-3.4*
3.00	1.42E 00	1.35E 00	1.40E 00	1.54E 00	1.70E 00	2.13E 00	2.46E 00	3.67E 00	7.54E 00	2.30E 01	7.52E 02	4.75E 02
5.00	1.00E-00	1.00E-00	1.00E-00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	0.0	0.0
10.0	7.04E-01	5.97E-01	4.94E-01	3.37E-01	2.19E-01	1.94E-01	1.70E-01	1.14E-01	7.52E-02	2.44E-02	0.0	0.0
15.0	5.65E-01	4.31E-01	3.20E-01	1.73E-01	8.38E-02	6.84E-02	5.56E-02	2.93E-02	1.45E-02	0.0	0.0	0.0
20.0	5.28E-01	3.80E-01	2.76E-01	1.32E-01	5.50E-02	4.03E-02	2.91E-02	9.08E-03	2.56E-03	0.0	0.0	0.0
25.0	5.11E-01	3.51E-01	2.56E-01	1.12E-01	4.14E-02	2.71E-02	1.72E-02	3.36E-03	0.0	0.0	0.0	0.0
30.0	4.96E-01	3.24E-01	2.38E-01	9.49E-02	3.12E-02	1.83E-02	1.03E-02	1.32E-03	0.0	0.0	0.0	0.0
50.0	4.38E-01	2.39E-01	1.78E-01	4.95E-02	1.02E-02	3.86E-03	1.32E-03	1.06E-04	0.0	0.0	0.0	0.0
100.	3.18E-01	1.56E-01	1.04E-01	2.42E-02	3.57E-03	7.38E-04	6.14E-05	0.0	0.0	0.0	0.0	0.0
NORMFLUX=	1.86E 06	4.36E 07	2.07E 07	1.54E 07	1.30E 07	5.92E 06	2.79E 06	1.18E 06	1.20E 05	6.11E 03	0.0	0.0

[illegible][illegible]

 ** ORBITAL FLUX STUDY WITH COMPOSITE PARTICLE ENVIRONMENTS: VETTES APS, AP6, AP7; AE4, AE5, FOR SOLAR MAXIMUM *** UNIFLX OF 1973 **
 ** ELECTRON FLUXES EXPONENTIALLY DECAYED TO 1970--0 WITH LIFETIMES: E.G. STASSINGPOULDS&P. VERZARIU ** CUTOFF TIMES: **
 ** MAGNETIC COORDINATES B AND L COMPUTED BY INVARA OF 1972 WITH ALLMAG. MODEL 4: CAIN&SWEENEY 120-TERM PDGD 8/69 * TIME= 1974.0 **
 ** VEHICLE :..... SATS..... ** INCLINATION= 90DEG ** PERIGEE= 1000KM ** APOGEE= 1000KM ** B/L ORBIT TAPE: T07372 ** PERIOD= 1.752 **

***** ELECTRONS *****

** SPECTRAL DISTRIBUTION : NORMALIZED BY FLUX OF ENERGY GREATER THAN .500 MEV **

ENERGY LEVELS >(MEV)	L - BANDS (MAGNETIC SHELL PARAMETER IN EARTH RADI I) L - BANDS											
	1.0-1.2	*1.2-1.4*	*1.4-1.6*	*1.6-1.8*	*1.8-2.0*	*2.0-2.2*	*2.2-2.4*	*2.4-2.6*	*2.6-2.8*	*2.8-3.0*	*3.0-3.2*	*3.2-3.4*

.0	5.25E 00	1.12E 01	2.30E 01	1.04E 02	1.72E 02	3.19E 02	5.90E 02	3.92E 02	5.97E 01	2.01E 01	1.23E 01	1.25E 01
.500	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00
1.00	5.34E-01	8.50E-01	1.96E-01	2.22E-01	6.93E-02	4.13E-02	4.14E-02	7.30E-02	2.12E-01	3.39E-01	3.67E-01	3.90E-01
1.50	3.49E-01	4.05E-02	1.03E-01	9.76E-02	1.70E-02	6.62E-03	5.61E-03	1.41E-02	8.65E-02	1.71E-01	1.80E-01	1.92E-01
2.00	1.72E-01	1.77E-02	5.86E-02	4.09E-02	4.89E-03	1.60E-03	1.12E-03	3.04E-03	3.93E-02	8.61E-02	8.82E-02	9.49E-02
2.50	5.59E-02	6.27E-03	2.47E-02	1.41E-02	1.32E-03	3.24E-04	1.62E-04	3.36E-04	1.15E-02	3.92E-02	3.81E-02	4.10E-02
3.00	1.68E-02	2.05E-03	7.84E-03	4.17E-03	3.02E-04	3.17E-05	0.0	0.0	1.12E-03	1.36E-02	1.41E-02	1.49E-02
4.00	1.69E-04	1.99E-05	7.16E-05	8.03E-05	1.34E-05	0.0	0.0	0.0	0.0	4.00E-04	3.93E-04	4.13E-04
5.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

NORMFLUX= 2.02E 07 3.35E 09 1.71E 09 2.48E 08 8.73E 07 2.43E 07 7.56E 06 2.83E 06 6.68E 05 7.62E 06 8.10E 07 1.38E 08

ENERGY LEVELS >(MEV)	L - BANDS (MAGNETIC SHELL PARAMETER IN EARTH RADI I) L - BANDS											
	3.4-3.6	*3.6-3.8*	*3.8-4.0*	*4.0-4.2*	*4.2-4.4*	*4.4-4.6*	*4.6-4.8*	*4.8-5.0*	*5.0-5.2*	*5.2-5.4*	*5.4-5.6*	*5.6-5.8*

.0	1.50E 01	1.20E 01	9.19E 00	6.93E 00	6.77E 00	6.69E 00	6.92E 00	7.21E 00	7.40E 00	7.57E 00	7.70E 00	7.64E 00
.500	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00
1.00	3.96E-01	3.83E-01	3.67E-01	3.55E-01	3.56E-01	3.54E-01	3.46E-01	3.37E-01	3.31E-01	3.23E-01	3.12E-01	2.82E-01
1.50	1.98E-01	1.92E-01	1.74E-01	1.51E-01	1.41E-01	1.34E-01	1.27E-01	1.21E-01	1.16E-01	1.07E-01	9.86E-02	8.62E-02
2.00	9.90E-02	9.58E-02	8.27E-02	6.39E-02	5.62E-02	5.06E-02	4.68E-02	4.36E-02	4.05E-02	3.53E-02	3.12E-02	2.64E-02
2.50	4.61E-02	4.77E-02	4.17E-02	2.85E-02	2.36E-02	2.03E-02	1.76E-02	1.53E-02	1.34E-02	1.07E-02	8.76E-03	7.22E-03
3.00	1.75E-02	2.02E-02	1.86E-02	1.26E-02	9.40E-03	7.40E-03	5.75E-03	4.45E-03	3.65E-03	2.71E-03	2.14E-03	1.79E-03
4.00	5.22E-04	6.72E-04	6.31E-04	3.95E-04	2.60E-04	1.88E-04	1.40E-04	1.06E-04	8.43E-05	5.81E-05	4.30E-05	2.96E-05
5.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

NORMFLUX= 1.86E 08 2.28E 08 1.72E 08 2.87E 08 2.24E 08 2.04E 08 1.27E 08 1.53E 08 8.05E 07 9.54E 07 9.47E 07 3.30E 07

ENERGY LEVELS >(MEV)	L - BANDS (MAGNETIC SHELL PARAMETER IN EARTH RADI I) L - BANDS											
	5.8-6.0	*6.0-6.2*	*6.2-6.4*	*6.4-6.6*	*6.6-6.8*	*6.8-7.0*	*7.0-7.2*	*7.2-7.4*	*7.4-7.6*	*7.6-7.8*	*7.8-8.0*	*8.0-OVR*

.0	7.57E 00	8.52E 00	9.56E 00	1.11E 01	1.40E 01	1.56E 01	2.06E 01	2.83E 01	3.79E 01	7.04E 01	1.21E 02	3.29E 03
.500	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00
1.00	2.55E-01	2.38E-01	2.36E-01	2.32E-01	1.99E-01	1.79E-01	1.47E-01	1.30E-01	1.17E-01	1.01E-01	8.91E-02	5.84E-02
1.50	7.60E-02	6.74E-02	6.46E-02	6.12E-02	4.79E-02	4.11E-02	3.13E-02	2.66E-02	2.34E-02	1.90E-02	1.62E-02	7.77E-03
2.00	2.26E-02	1.91E-02	1.77E-02	1.61E-02	1.15E-02	9.46E-03	6.66E-03	5.45E-03	4.66E-03	3.57E-03	2.94E-03	1.26E-03
2.50	6.09E-03	4.88E-03	4.36E-03	3.80E-03	2.56E-03	2.05E-03	1.39E-03	1.10E-03	9.25E-04	5.88E-04	3.38E-04	0.0
3.00	1.54E-03	1.15E-03	9.49E-04	7.61E-04	4.98E-04	4.08E-04	2.80E-04	2.09E-04	1.76E-04	0.0	0.0	0.0
4.00	2.20E-05	1.81E-05	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

NORMFLUX= 4.34E 07 3.90E 07 1.54E 07 1.67E 07 1.48E 07 8.23E 06 1.24E 07 3.11E 06 1.66E 06 2.77E 05 8.51E 05 9.96E 05

Table 60

 ** ORBITAL FLUX STUDY WITH COMPOSITE PARTICLE ENVIRONMENTS: VETTES AP5, AP6, AP7; AE4, AE5. FOR SOLAR MAXIMUM **** UNIFLX OF 1973 **
 ** ELECTRON FLUXES EXPONENTIALLY DECAYED TO 1970. 0 WITH LIFE TIMES: E.G. STASSINOPOULOS & VERZARIU ** CUTOFF TIMES: **
 ** MAGNETIC COORDINATES H AND L COMPUTED BY INVARA OF 1972 WITH ALLMAG, MOIFL 4: CAIN & SWFENY 120-TERM PGD 8/69 * TIME= 1974.0 **
 ** VEHICLE: SATS ** INCLINATION= 30 DEG ** PERIGEE= 200 KM ** APOGEE= 200 KM ** R/L ORBIT TAPE: TD7963 ** PERIOD= 1.475 **

***** LOW ENERGY PROTONS *****

***** SPECTRUM IN PERCENT DELTA ENERGY *****

ENERGY RANGES (MEV)	AVERAGE TOTAL FLUX #/CM**2/SEC	AVERAGE TOTAL FLUX #/CM**2/DAY	SPECTRUM PER CENT
.100-.500	3.540E 01	3.059E 05	15.681
.500-.900	1.617E 00	3.125E 05	16.020
.900-1.10	2.165E 00	1.871E 05	9.591
1.10-1.50	3.397E 01	2.935E 05	15.344
1.50-2.00	2.970E 00	2.566E 05	13.155
2.00-2.50	2.018E 00	1.744E 05	8.938
2.50-3.00	1.386E 00	1.200E 05	6.153
3.00-3.50	9.678E 01	8.361E 04	4.286
3.50-OVER	2.513E 00	2.171E 05	11.130
TOTAL	2.258E 01	1.951E 06	100.000

*** COMPOSITE ORBIT SPECTRUM ***

ENERGY LEVELS >(MEV)	AVERAGE INTEG.FLUX #/CM**2/SEC	AVERAGE INTEG.FLUX #/CM**2/DAY
.100	2.258E 01	1.951E 06
.300	2.073E 01	1.791E 06
.500	1.904E 01	1.645E 06
.700	1.748E 01	1.510E 06
.900	1.542E 01	1.332E 06
1.10	1.325E 01	1.145E 06
1.30	1.142E 01	9.866E 05
1.50	9.858E 00	8.518E 05
1.75	8.228E 00	7.109E 05
2.00	6.888E 00	5.951E 05
2.25	5.784E 00	4.997E 05
2.50	4.870E 00	4.208E 05
2.75	4.112E 00	3.553E 05
3.00	3.481E 00	3.007E 05
3.50	2.513E 00	2.171E 05

* EXPOSURE INDEX: ENERGY >.100MEV *

INTENSITY RANGES #/CM**2/SEC	EXPOSURE DURATION (HOURS)	TOTAL # OF ACCUMULATED PARTICLES
ZERO FLUX	22.250	0.0
1.E0-1.E1	0.400	5.043E 03
1.E1-1.E2	0.350	4.177E 04
1.E2-1.E3	0.933	1.628E 06
1.E3-1.E4	0.067	2.760E 05
1.E4-1.E5	0.0	0.0
1.E5-1.E6	0.0	0.0
1.E6-1.E7	0.0	0.0
1.E7-OVER	0.0	0.0
TOTAL	24.000	1.951E 06

 ** ORBITAL FLUX STUDY WITH COMPOSITE PARTICLE ENVIRONMENTS: VETTES AP5, AP6, AP7; AE4, AE5, FOR SOLAR MAXIMUM **** UNIFLX OF 1973 **
 ** ELECTRON FLUXES EXPONENTIALLY DECAYED TO 1970, 0 WITH LIFETIMES: E.G. STASSINGPOULOS P. VERZARIU *** CUTOFF TIMES: ***
 ** MAGNETIC COORDINATES B AND L COMPUTED BY INVARA OF 1972 WITH ALLMAG. MODEL 4: CAINSWHEENEY 120-TERM POGO 8/69 * TIME= 1974.0 **
 ** VEHICLE : SATS ** INCLINATION= 300KG ** PERIGEE= 200KM ** APOGEE= 200KM *** BAL ORBIT TAPE: TD7963 ** PERIOD= 1.475 **

***** HIGH ENERGY PROTONS *****

***** SPECTRUM IN PERCENT FLUX ENERGY *****

ENERGY RANGES (MEV)	AVERAGED TOTAL FLUX #/CM**2/SEC	AVERAGED TOTAL FLUX #/CM**2/DAY	SPECTRUM PER CENT
3.00-5.00	1.820E-00	1.572E-05	52.277
5.00-10.0	2.101E-01	1.815E-04	6.036
10.0-15.0	1.066E-01	9.269E-03	3.062
15.0-20.0	2.829E-01	2.444E-04	8.128
20.0-25.0	2.409E-01	2.081E-04	6.920
25.0-30.0	1.719E-01	1.485E-04	4.937
30.0-50.0	3.337E-01	2.883E-04	9.587
50.0-100.	2.027E-01	1.751E-04	5.822
100.-OVER	1.125E-01	9.716E-03	3.231
TOTAL	3.481E-00	3.007E-05	100.000

*** COMPOSITE ORBIT SPECTRUM ***

ENERGY LEVELS >(MEV)	AVERAGED INTEG. FLUX #/CM**2/SEC	AVERAGED INTEG. FLUX #/CM**2/DAY
3.00	3.481E-00	3.007E-05
4.00	1.831E-00	1.582E-05
5.00	1.661E-00	1.435E-05
7.00	1.549E-00	1.338E-05
10.0	1.451E-00	1.254E-05
12.0	1.407E-00	1.216E-05
15.0	1.344E-00	1.162E-05
18.0	1.184E-00	1.023E-05
20.0	1.062E-00	9.172E-04
25.0	8.267E-01	7.691E-04
30.0	6.488E-01	5.606E-04
50.0	3.151E-01	2.723E-04
60.0	2.425E-01	2.095E-04
70.0	1.963E-01	1.696E-04
100.	1.125E-01	9.716E-03

* EXPOSURE INDEX: ENERGY >5.00MEV *

INTENSITY RANGES #/CM**2/SEC	EXPOSURE DURATION (HOURS)	TOTAL # OF ACCUMULATED PARTICLES
ZERO-FLUX	22.533	0.0
1.E0-1.E1	0.633	9.595E-03
1.E1-1.E2	0.750	9.469E-04
1.E2-1.E3	0.083	3.924E-04
1.E3-1.E4	0.0	0.0
1.E4-1.E5	0.0	0.0
1.E5-1.E6	0.0	0.0
1.E6-1.E7	0.0	0.0
1.E7-OVER	0.0	0.0
TOTAL	24.000	1.435E-05

Table 62

 ** ORBITAL FLUX STUDY WITH COMPOSITE PARTICLE ENVIRONMENTS: VETTES AP5, AP6, AP7; AFA, AFE, FOR SOLAR MAXIMUM **** UNIFLX OF 1973 **
 ** ELECTRON FLUXES EXPONENTIALLY DECAYED TO 1970.0 WITH LIFETIMES: 0.6 STASSINGDOULDSER, VERZARIU ** CUTOFF TIMES: **
 ** MAGNETIC COORDINATES B AND L COMPUTED BY INVARA OF 1972 WITH ALLMAG, MODEL 4: CAINESSWENNEY 120-TERM POGO 8/69 * TIME= 1974.0 **
 ** VEHICLE: SATS ** INCLINATION= 30DEG ** PERIGEE= 200KM ** APOGEE= 200KM ** B/L ORBIT TAPE: TD7963 ** PERIOD= 1.475 **

 ***** ELECTRONS *****

***** SPECTRUM IN PERCENT DELTA ENERGY *****

ENERGY RANGES (MEV)	AVERAGED TOTAL FLUX #/CM**2/SEC	AVERAGED TOTAL FLUX #/CM**2/DAY	SPECTRUM PER CENT
0.0 -0.500	2.002E-00	1.731E-05	89.656
0.500-1.00	1.264E-01	1.092E-04	5.594
1.00-1.50	2.748E-02	2.374E-03	1.216
1.50-2.00	3.077E-02	2.659E-03	1.362
2.00-2.50	3.047E-02	2.632E-03	1.349
2.50-3.00	1.703E-02	1.471E-03	0.754
3.00-4.00	2.270E-02	1.962E-03	1.005
4.00-5.00	1.460E-03	1.261E-02	0.765
5.00-OVER	0.0	0.0	0.0
TOTAL	2.259E-00	1.952E-05	100.000

*** COMPOSITE ORBIT SPECTRUM ***

ENERGY LEVELS >(MEV)	AVERAGED INTSG.FLUX #/CM**2/SEC	AVERAGED INTSG.FLUX #/CM**2/DAY
0.0	2.259E-00	1.952E-05
0.250	7.397E-01	6.391E-04
0.500	2.563E-01	2.214E-04
0.750	1.511E-01	1.306E-04
1.000	1.299E-01	1.122E-04
1.250	1.149E-01	9.926E-05
1.500	1.024E-01	8.850E-05
1.750	8.816E-02	7.617E-05
2.000	7.166E-02	6.191E-05
2.500	4.119E-02	3.559E-05
3.000	2.416E-02	2.088E-05
3.500	1.323E-02	1.143E-05
4.000	1.460E-03	1.261E-02
4.500	0.0	0.0
5.000	0.0	0.0

* EXPOSURE INDEX:ENERGY >.500MEV *

INTENSITY RANGES #/CM**2/SEC	EXPOSURE DURATION (HOURS)	TOTAL # OF ACCUMULATED PARTICLES
ZERO FLUX	23.367	0.0
1.E0-1.E1	0.367	5.409E 03
1.E1-1.E2	0.267	1.673E 04
1.E2-1.E3	0.0	0.0
1.E3-1.E4	0.0	0.0
1.E4-1.E5	0.0	0.0
1.E5-1.E6	0.0	0.0
1.E6-1.E7	0.0	0.0
1.E7-OVER	0.0	0.0
TOTAL	24.000	2.214E 04

Table 63

 ** ORBITAL FLUX STUDY WITH COMPOSITE PARTICLE ENVIRONMENTS: VETTES APS, AP6, AP7; AE4, AE5, FOR SOLAR MAXIMUM **** UNIFLX OF 1973 **
 ** ELECTRON FLUXES EXPONENTIALLY DECAYED TO 1970, 0 WITH LIFETIMES: E.G. STASSINOPOULOS & VERZARIU ** CUTOFF TIMES: **
 ** MAGNETIC COORDINATES B AND L COMPUTED BY INVARA OF 1972 WITH ALLMAG, MODEL 4: CAINGSWFFENEY 120-TERM PDGD 8/69 * TIME= 1974.0 **
 ** VEHICLE: SATS ** INCLINATION= 60DEG ** PERIGEE= 200KM ** APOGEE= 200KM ** S/L ORBIT TAPE: TD7963 ** PERIOD= 1.475 **

 ***** LOW ENERGY PROTONS *****

***** SPECTRUM IN PERCENT DELTA ENERGY *****

*** COMPOSITE ORBIT SPECTRUM ***

* EXPOSURE INDEX: ENERGY > 100MEV *

ENERGY RANGES (MEV)	AVERAGED TOTAL FLUX #/CM**2/SEC	AVERAGED TOTAL FLUX #/CM**2/DAY	SPECTRUM PER CENT	ENERGY LEVELS (MEV)	AVERAGED INTEG. FLUX #/CM**2/SEC	AVERAGED INTEG. FLUX #/CM**2/DAY	INTENSITY RANGES #/CM**2/SEC	EXPOSURE DURATION (HOURS)	TOTAL # OF ACCUMULATED PARTICLES
.100-.500	1.370E 03	1.184E 08	79.776	.100	1.717E 03	1.484E 08	ZERO FLUX	21.333	0.0
.500-.900	1.907E 02	1.647E 07	11.104	.300	6.104E 02	5.274E 07	1.E0-1.E1	0.333	4.727E 03
.900-1.10	4.154E 01	3.589E 06	2.419	.500	3.473E 02	3.001E 07	1.E1-1.E2	0.317	4.297E 04
1.10-1.50	4.518E 01	3.903E 06	2.631	.700	2.252E 02	1.946E 07	1.E2-1.E3	0.317	5.860E 05
1.50-2.00	2.593E 01	2.240E 06	1.510	.900	1.566E 02	1.353E 07	1.E3-1.E4	0.817	1.080E 07
2.00-2.50	1.336E 01	1.154E 06	0.778	1.10	1.151E 02	9.943E 06	1.E4-1.E5	0.817	9.196E 07
2.50-3.00	8.205E 00	7.090E 05	0.478	1.30	8.812E 01	7.613E 06	1.E5-1.E6	0.067	4.497E 07
3.00-3.50	5.584E 00	4.825E 05	0.325	1.50	6.990E 01	6.039E 06	1.E6-1.E7	0.0	0.0
3.50-OVER	1.682E 01	1.453E 06	0.979	1.75	5.449E 01	4.708E 06	1.E7-OVER	0.0	0.0
				2.00	4.397E 01	3.799E 06			
TOTAL	1.717E 03	1.484E 08	100.000	2.25	3.637E 01	3.142E 06	TOTAL	24.000	1.484E 08
				2.50	3.061E 01	2.644E 06			
				2.75	2.607E 01	2.253E 06			
				3.00	2.240E 01	1.935E 06			
				3.50	1.682E 01	1.453E 06			

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Table 64

 ** ORBITAL FLUX STUDY WITH COMPOSITE PARTICLE ENVIRONMENTS: VETTES APS, AP6, AP7; AE4, AE5, FOR SOLAR MAXIMUM *** UNIFLX OF 1973 **
 ** ELECTRON FLUXES EXPONENTIALLY DECAYED TO 1970.0 WITH LIFETIMES: E.G. STASSINOPoulos P. VERZARIU *** CUTOFF TIMES: **
 ** MAGNETIC COORDINATES B AND L COMPUTED BY INVARA OF 1972 WITH ALLMAG, MODEL 4: CAIN & SWEENEY 120-TERM PGD 8/69 * TIME = 1974.0 **
 ** VEHICLE: SATS *** INCLINATION = 60 DEG *** PERIGEE = 200 KM *** APOGEE = 200 KM *** B/L ORBIT TAPE: TD 7963 *** PERIOD = 1.475 **

***** HIGH ENERGY PROTONS *****

***** SPECTRUM IN PERCENT DELTA-ENERGY *****				*** COMPOSITE ORBIT SPECTRUM ***			* EXPOSURE INDEX: ENERGY > 5.00 MEV *		
ENERGY RANGES (MEV)	AVERAGED TOTAL FLUX #/CM**2/SEC	AVERAGED TOTAL FLUX #/CM**2/DAY	SPECTRUM PER-CENT	ENERGY LEVELS >(MEV)	AVERAGED INTEG. FLUX #/CM**2/SEC	AVERAGED INTEG. FLUX #/CM**2/DAY	INTENSITY RANGES #/CM**2/SEC	EXPOSURE DURATION (HOURS)	TOTAL # OF ACCUMULATED PARTICLES
3.00-5.00	1.323E 01	1.143E 06	59.041	3.00	2.240E 01	1.935E 06	ZERO FLUX	22.433	0.0
5.00-10.0	5.575E 00	4.817E 05	24.885	4.00	1.280E 01	1.106E 06	1.E0-1.E1	0.433	6.404E 03
10.0-15.0	1.113E 00	9.617E 04	4.969	5.00	9.175E 00	7.928E 05	1.E1-1.E2	0.433	6.566E 04
15.0-20.0	5.539E 01	4.786E 04	2.473	7.00	9.408E 00	4.673E 05	1.E2-1.E3	0.700	7.207E 05
20.0-25.0	3.790E 01	3.276E 04	1.692	10.0	3.601E 00	3.111E 05	1.E3-1.E4	0.0	0.0
25.0-30.0	2.888E 01	2.495E 04	1.289	12.0	3.058E 00	2.642E 05	1.E4-1.E5	0.0	0.0
30.0-50.0	6.640E 01	5.737E 04	2.964	15.0	2.488E 00	2.149E 05	1.E5-1.E6	0.0	0.0
50.0-100.	4.107E 01	3.549E 04	1.834	18.0	2.123E 00	1.834E 05	1.E6-1.E7	0.0	0.0
100.-OVER	1.911E 01	1.651E 04	0.853	20.0	1.934E 00	1.671E 05	1.E7-OVER	0.0	0.0
				25.0	1.555E 00	1.343E 05			
TOTAL	2.240E 01	1.935E 06	100.000	30.0	1.266E 00	1.094E 05	TOTAL	24.000	7.928E 05
				50.0	6.018E 01	5.200E 04			
				60.0	4.675E 01	4.039E 04			
				70.0	3.725E 01	3.218E 04			
				100.	1.911E 01	1.651E 04			

 ** ORBITAL FLUX STUDY WITH COMPOSITE PARTICLE ENVIRONMENTS: VETTES APS, AP6, AP7: AE4, AE5, FOR SOLAR MAXIMUM *** UNIFLX OF 1973 **
 ** ELECTRON FLUXES EXPONENTIALLY DECAYED TO 1970-0 WITH LIFETIMES: E.G. STASSINOPOULOS & VERZARIU ** CUTOFF TIMES: **
 ** MAGNETIC COORDINATES B AND L COMPUTED BY INVARA OF 1972 WITH ALLMAG, MODEL 4: CAINE SWEENEY 120-TERM PDGO 8/69 * TIME= 1974.0 **
 ** VEHICLE: SATS ** INCLINATION= 60DEG ** PERIGEE= 200KM ** APOGEE= 200KM ** B/L ORBIT TAPE: TD7963 ** PERIOD= 1.475 **

 ***** ELECTRONS *****

***** SPECTRUM IN PERCENT DELTA ENERGY *****				*** COMPOSITE ORBIT SPECTRUM ***			* EXPOSURE INDEX: ENERGY > 500MEV *		
ENERGY RANGES (MEV)	AVERAGE TOTAL FLUX #/CM**2/SEC	AVERAGED TOTAL FLUX #/CM**2/DAY	SPECTRUM PER CENT	ENERGY LEVELS >(MEV)	AVERAGED INTEG. FLUX #/CM**2/SEC	AVERAGED INTEG. FLUX #/CM**2/DAY	INTENSITY RANGES #/CM**2/SEC	EXPOSURE DURATION (HOURS)	TOTAL # OF ACCUMULATED PARTICLES
0.0 - 0.500	7.499E 04	6.479E 09	91.199	0.0	8.223E 04	7.104E 09	ZERO FLUX	18.250	0.0
0.500-1.00	4.623E 03	3.994E 08	5.622	0.250	1.699E 04	1.468E 09	1.E0-1.E1	0.350	4.801E 03
1.00-1.50	1.460E 03	1.262E 08	1.776	0.500	7.237E 03	6.253E 08	1.E1-1.E2	0.433	6.340E 04
1.50-2.00	6.344E 02	5.481E 07	0.772	0.750	4.338E 03	3.748E 08	1.E2-1.E3	0.717	1.226E 06
2.00-2.50	2.879E 02	2.488E 07	0.350	1.00	2.614E 03	2.258E 08	1.E3-1.E4	1.400	1.909E 07
2.50-3.00	1.396E 02	1.206E 07	0.170	1.25	1.732E 03	1.496E 08	1.E4-1.E5	2.383	3.432E 08
3.00-4.00	8.881E 01	7.674E 06	0.108	1.50	1.154E 03	9.966E 07	1.E5-1.E6	0.467	2.669E 08
4.00-5.00	2.778E 00	2.400E 05	0.003	1.75	7.721E 02	6.671E 07	1.E6-1.E7	0.0	0.0
5.00-OVER	0.0	0.0	0.0	2.00	5.191E 02	4.485E 07	1.E7-OVER	0.0	0.0
				2.50	2.312E 02	1.997E 07			
TOTAL	8.223E 04	7.104E 09	100.000	3.00	9.159E 01	7.914E 06	TOTAL	24.000	6.253E 08
				3.50	2.509E 01	2.168E 06			
				4.00	2.778E 00	2.400E 05			
				4.50	4.944E 02	4.271E 03			
				5.00	0.0	0.0			

Table 66

 ** ORBITAL FLUX STUDY WITH COMPOSITE PARTICLE ENVIRONMENTS: VETTES APS, AP6, AP7; AE4, AES, FOR SOLAR MAXIMUM *** UNIFLX OF 1973 **
 ** ELECTRON FLUXES EXPONENTIALLY DECAYED TO 1970.0 WITH LIFETIMES: E.G. STASSINOPoulos SP. VERZARIO ** CUTOFF TIMES: **
 ** MAGNETIC COORDINATES B AND L COMPUTED BY INVARA OF 1972 WITH ALLMAG, MODEL 4: CAINESWENNEY 120-TERM PDG0 8/69 * TIME= 1174.0 **
 ** VEHICLE: SATS ** INCLINATION= 94DEG ** PERIGEE= 200KM ** APOGEE= 200KM ** B/L ORBIT TAPE: TD7963 ** PERIOD= 1.475 **

 ***** LOW ENERGY PROTONS *****

***** SPECTRUM IN PERCENT DELTA ENERGY *****				*** COMPOSITE ORBIT SPECTRUM ***			* EXPOSURE INDEX: ENERGY > 100MEV *		
ENERGY RANGES (MEV)	AVERAGED TOTAL FLUX #/CM**2/SEC	AVERAGED TOTAL FLUX #/CM**2/DAY	SPECTRUM PER CENT	ENERGY LEVELS (MEV)	AVERAGED INTEG. FLUX #/CM**2/SEC	AVERAGED INTEG. FLUX #/CM**2/DAY	INTENSITY RANGES #/CM**2/SEC	EXPOSURE DURATION (HOURS)	TOTAL # OF ACCUMULATED PARTICLES
100-500	1.673E 03	1.618E 08	99.057	100	2.080E 03	1.797E 08	ZERO FLUX	21.817	0.0
500-900	1.108E 02	9.572E 06	5.326	300	4.278E 02	3.696E 07	1.E0-1.E1	0.283	3.663E 03
900-1.10	2.266E 01	1.958E 06	1.089	500	2.068E 02	1.787E 07	1.E1-1.E2	0.233	2.624E 04
1.10-1.50	2.570E 01	2.220E 06	1.236	700	1.337E 02	1.155E 07	1.E2-1.E3	0.350	5.880E 05
1.50-2.00	1.698E 01	1.381E 06	0.768	900	9.603E 01	8.297E 06	1.E3-1.E4	0.617	7.104E 06
2.00-2.50	8.948E 00	7.731E 05	0.430	1.10	7.337E 01	6.339E 06	1.E4-1.E5	0.517	5.766E 07
2.50-3.00	5.804E 00	5.015E 05	0.279	1.30	5.825E 01	5.033E 06	1.E5-1.E6	0.183	1.143E 08
3.00-3.50	4.076E 00	3.522E 05	0.196	1.50	4.767E 01	4.119E 06	1.E6-1.E7	0.0	0.0
3.50-OVER	1.286E 01	1.111E 06	0.618	1.75	3.836E 01	3.314E 06	1.E7-OVER	0.0	0.0
				2.00	3.169E 01	2.738E 06			
TOTAL	2.080E 03	1.797E 08	100.000	2.25	2.568E 01	2.305E 06	TOTAL	24.000	1.797E 08
				2.50	2.274E 01	1.965E 06			
				2.75	1.957E 01	1.691E 06			
				3.00	1.694E 01	1.464E 06			
				3.50	1.286E 01	1.111E 06			

 ** ORBITAL FLUX STUDY WITH COMPOSITE PARTICLE ENVIRONMENTS: VETTES AP5, AP6, AP7; AE4, AE5, FOR SOLAR MAXIMUM *** UNIFLX OF 1973 **
 ** ELECTRON FLUXES EXPONENTIALLY DECAYED TO 1970. 0 WITH LIFETIMES: F.G. STASSINOPOULOS & P. VERZARIO ** CUTOFF TIMES: **
 ** MAGNETIC COORDINATES B AND L COMPUTED BY INVARA OF 1972 WITH ALLMAG, MODEL 4: CAINE & SWENNEY 120-TERM POGO 8/69 * TIME= 1974.0 **
 ** VEHICLE: SATS ** INCLINATION= 90 DEG ** PERIGEE= 200 KM ** APOGEE= 200 KM ** B/L ORBIT TAPE: TD7963 ** PERIOD= 1.475 **

***** HIGH ENERGY PROTONS *****

***** SPECTRUM IN PERCENT DELTA ENERGY *****				*** COMPOSITE ORBIT SPECTRUM ***			* EXPOSURE INDEX: ENERGY > 5.00 MEV *		
ENERGY RANGES (MEV)	AVERAGED TOTAL FLUX #/CM**2/SEC	AVERAGED TOTAL FLUX #/CM**2/DAY	SPECTRUM PER-CENT	ENERGY LEVELS (MEV)	AVERAGED INTFG. FLUX #/CM**2/SEC	AVERAGED INTFG. FLUX #/CM**2/DAY	INTENSITY RANGES #/CM**2/SEC	EXPOSURE DURATION (HOURS)	TOTAL # OF ACCUMULATED PARTICLES
-3.00-5.00	9.797E-00	8.465E-05	57.836	3.00	1.694E-01	1.464E-06	ZERO FLUX	22.883	0.0
5.00-10.0	4.275E-00	3.693E-05	25.235	4.00	9.883E-00	8.539E-05	1.E0-1.E1	0.233	2.723E-03
10.0-15.0	8.713E-01	7.528E-04	5.144	5.00	7.142E-00	6.171E-05	1.E1-1.E2	0.367	5.279E-04
15.0-20.0	4.532E-01	3.916E-04	2.676	7.00	4.268E-00	3.688E-05	1.E2-1.E3	0.517	5.616E-05
20.0-25.0	3.138E-01	2.712E-04	1.853	10.0	2.868E-00	2.478E-05	1.E3-1.E4	0.0	0.0
25.0-30.0	2.362E-01	2.041E-04	1.394	12.0	2.442E-00	2.110E-05	1.E4-1.E5	0.0	0.0
30.0-50.0	5.257E-01	4.542E-04	3.104	15.0	1.996E-00	1.725E-05	1.E5-1.E6	0.0	0.0
50.0-100.	3.180E-01	2.747E-04	1.877	18.0	1.701E-00	1.470E-05	1.E6-1.E7	0.0	0.0
100.-OVER	1.494E-01	1.290E-04	0.882	20.0	1.543E-00	1.333E-05	1.E7-OVER	0.0	0.0
				25.0	1.229E-00	1.062E-05			
TOTAL	1.694E-01	1.464E-06	100.000	30.0	9.931E-01	8.580E-04	TOTAL	24.000	6.171E-05
				50.0	4.673E-01	4.038E-04			
				60.0	3.635E-01	3.141E-04			
				70.0	2.874E-01	2.483E-04			
				100.	1.494E-01	1.290E-04			

Table 68

 ** ORBITAL FLUX STUDY WITH COMPOSITE PARTICLE ENVIRONMENTS: VETTE'S APS, AP6, AP7; AF4, AF5, FOR SOLAR MAXIMUM *** UNIFLX OF 1973 **
 ** ELECTRON FLUXES EXPONENTIALLY DECAYED TO 1976.0 WITH LIFETIMES: F.G. STASSINOPOLUS & VERZARIU ** CUTOFF TIMES: **
 ** MAGNETIC COORDINATES B AND L COMPUTED BY INVARA OF 1972 WITH ALLMAG, MODEL 4: CAINE & SWEENEY 120-TERM POGO 8/69 * TIME= 1974.0 **
 ** VEHICLE: SATS ** INCLINATION= 90DEG ** PERIGEE= 200KM ** APOGEE= 200KM ** 8/L ORBIT TAPE: TD7963 ** PERIOD= 1.475 **

 ELECTRONS

***** SPECTRUM IN PERCENT DELTA ENERGY *****

ENERGY RANGES (MEV)	AVERAGED TOTAL FLUX #/CM**2/SEC	AVERAGED TOTAL FLUX #/CM**2/DAY	SPECTRUM PER CENT
0.0 -0.500	7.684E 04	6.639E 09	91.224
0.500-1.00	4.796E 03	4.144E 08	5.694
1.00-1.50	1.497E 03	1.293E 08	1.777
1.50-2.00	6.223E 02	5.376E 07	0.739
2.00-2.50	2.743E 02	2.334E 07	0.321
2.50-3.00	1.265E 02	1.093E 07	0.150
3.00-4.00	7.682E 01	6.610E 06	0.094
4.00-5.00	2.434E 01	2.103E 06	0.303
5.00-OVER	0.0	0.0	0.0
TOTAL	8.423E 04	7.278E 09	100.000

*** COMPOSITE ORBIT SPECTRUM ***

ENERGY LEVELS >(MEV)	AVERAGED INTEG. FLUX #/CM**2/SEC	AVERAGED INTEG. FLUX #/CM**2/DAY
0.0	8.423E 04	7.278E 09
0.250	1.696E 04	1.465E 09
0.500	7.392E 03	6.387E 08
0.750	4.367E 03	3.773E 08
1.000	2.597E 03	2.244E 08
1.25	1.684E 03	1.455E 08
1.50	1.100E 03	9.505E 07
1.75	7.230E 02	6.246E 07
2.00	4.779E 02	4.129E 07
2.50	2.077E 02	1.795E 07
3.00	8.126E 01	7.021E 06
3.50	2.220E 01	1.918E 06
4.00	2.434E 00	2.103E 05
4.50	3.813E 02	3.295E 03
5.00	0.0	0.0

* EXPOSURE INDEX: ENERGY > 500MEV *

INTENSITY RANGES #/CM**2/SEC	EXPOSURE DURATION (HOURS)	TOTAL # OF ACCUMULATED PARTICLES
ZERO FLUX	18.467	0.0
1.E0-1.E1	0.250	3.152E 03
1.E1-1.E2	0.400	7.023E 04
1.E2-1.E3	0.600	1.025E 06
1.E3-1.E4	1.317	2.255E 07
1.E4-1.E5	2.483	3.511E 08
1.E5-1.E6	0.483	2.640E 08
1.E6-1.E7	0.0	0.0
1.E7-OVER	0.0	0.0
TOTAL	24.000	6.387E 08

Table 69

 ** ORBITAL FLUX STUDY WITH COMPOSITE PARTICLE ENVIRONMENTS: VETTES APS, AP6, AP7; AE4, AE5, FOR SOLAR MAXIMUM **** UNIFLX OF 1973 **
 ** ELECTRON FLUXES EXPONENTIALLY DECAYED TO 1970. 0 WITH LIFETIMES: E.G. STASSINPOULOS & P. VERZARIU ** CUTOFF TIMES: **
 ** MAGNETIC COORDINATES B AND L COMPUTED BY INVARA OF 1972 WITH ALLMAG. MODEL 4: CAINE SHEENEY 120-TERM POGO 8/69 * TIME= 1974.0 **
 ** VEHICLE : SATS ** INCLINATION= .0DEG ** PERIGEE= -400KM ** APOGEE= -400KM ** B/L ORBIT TAPE: TD6794 ** PERIOD= 1.643 **

 ***** LOW ENERGY PROTONS *****

***** SPECTRUM IN PERCENT DELTA ENERGY *****				*** COMPOSITE ORBIT-SPECTRUM ***			* EXPOSURE INDEX: ENERGY > 0.100 MEV *		
ENERGY RANGES (MEV)	AVERAGED TOTAL FLUX #/CM**2/SEC	AVERAGED TOTAL FLUX #/CM**2/DAY	SPECTRUM PER CENT	ENERGY LEVELS > (MEV)	AVERAGED INTEG. FLUX #/CM**2/SEC	AVERAGED INTEG. FLUX #/CM**2/DAY	INTENSITY RANGES #/CM**2/SEC	EXPOSURE DURATION (HOURS)	TOTAL # OF ACCUMULATED PARTICLES
0.100-0.500	1.717E-02	1.484E 03	5.173	0.100	3.320E-01	2.868E 04	ZERO FLUX	22.033	0.0
0.500-0.900	2.639E-02	2.280E 03	7.948	0.300	3.232E-01	2.793E 04	1.E0-1.E1	1.817	2.234E 04
0.900-1.10	2.318E-02	2.003E 03	6.981	0.500	3.148E-01	2.720E 04	1.E1-1.E2	0.150	6.341E-03
1.10-1.50	3.931E-02	3.356E 03	11.840	0.700	3.067E-01	2.650E 04	1.E2-1.E3	0.0	0.0
1.50-2.00	3.847E-02	3.324E 03	11.588	0.900	2.884E-01	2.492E 04	1.E3-1.E4	0.0	0.0
2.00-2.50	2.945E-02	2.545E 03	8.872	1.10	2.652E-01	2.292E 04	1.E4-1.E5	0.0	0.0
2.50-3.00	2.271E-02	1.962E 03	6.840	1.30	2.445E-01	2.113E 04	1.E5-1.E6	0.0	0.0
3.00-3.50	1.764E-02	1.524E 03	5.314	1.50	2.259E-01	1.952E 04	1.E6-1.E7	0.0	0.0
3.50-OVER	1.177E-01	1.017E 04	35.444	1.75	2.064E-01	1.775E 04	1.E7-OVER	0.0	0.0
				2.00	1.875E-01	1.620E 04			
TOTAL	3.320E-01	2.868E 04	100.000	2.25	1.718E-01	1.484E 04	TOTAL	24.000	2.868E 04
				2.50	1.580E-01	1.365E 04			
				2.75	1.459E-01	1.261E 04			
				3.00	1.353E-01	1.169E 04			
				3.50	1.177E-01	1.017E 04			

Table 70

 ** ORBITAL FLUX STUDY WITH COMPOSITE PARTICLE ENVIRONMENTS: VETTES AP5, AP6, AP7; AF4, AF5, FOR SOLAR MAXIMUM *** UNIFLX OF 1973 **
 ** ELECTRON FLUXES EXPONENTIALLY DECAYED TO 1970. 0 WITH LIFETIMES: F.G. STASSINOPoulos & P. VERZARIU ** CUTOFF TIMES: **
 ** MAGNETIC COORDINATES B AND L COMPUTED BY INVARA OF 1972 WITH ALLMAG, MODEL 4: CAINE & WILFNEY 120-TERM PQGD 8/69 * TIME= 1974.0 **
 ** VEHICLE: SATS ** INCLINATION= 0DEG ** PERIGEE= 400KM ** APOGEE= 400KM ** S/L ORBIT TYPE: TD6794 ** PERIOD= 1.543 **

***** HIGH ENERGY PROTONS *****

***** SPECTRUM IN PERCENT DELTA ENERGY *****

ENERGY RANGES (MEV)	AVERAGED TOTAL FLUX #/CM**2/SEC	AVERAGED TOTAL FLUX #/CM**2/DAY	SPECTRUM PER CENT
3.00-5.00	7.016E-02	6.062E 03	51.851
5.00-10.0	1.480E-03	1.279E 02	1.094
10.0-15.0	8.698E-04	7.515E 01	0.643
15.0-20.0	3.291E-04	2.844E 01	0.243
20.0-25.0	1.952E-04	1.686E 01	0.144
25.0-30.0	1.942E-04	1.678E 01	0.144
30.0-50.0	7.661E-04	6.619E 01	0.566
50.0-100.	1.209E-02	1.044E 03	8.932
100.-OVER	4.923E-02	4.253E 03	36.383
TOTAL	1.353E-01	1.169E 04	100.000

*** COMPOSITE ORBIT SPECTRUM ***

ENERGY LEVELS >(MEV)	AVERAGED INTEG. FLUX #/CM**2/SEC	AVERAGED INTEG. FLUX #/CM**2/DAY
3.00	1.353E-01	1.169E 04
4.00	1.039E-01	8.973E 03
5.00	6.515E-02	5.629E 03
7.00	6.440E-02	5.564E 03
10.0	6.367E-02	5.501E 03
12.0	6.332E-02	5.471E 03
15.0	6.280E-02	5.426E 03
18.0	6.255E-02	5.404E 03
20.0	6.247E-02	5.397E 03
25.0	6.228E-02	5.381E 03
30.0	6.208E-02	5.364E 03
50.0	6.132E-02	5.298E 03
60.0	6.022E-02	5.203E 03
70.0	5.915E-02	5.110E 03
100.	4.923E-02	4.253E 03

* EXPOSURE INDEX: ENERGY >5.00MEV *

INTENSITY RANGES #/CM**2/SEC	EXPOSURE DURATION (HOURS)	TOTAL # OF ACCUMULATED PARTICLES
ZERO FLUX	22.900	0.0
1.E0-1.E1	1.100	5.629E 03
1.E1-1.E2	0.0	0.0
1.E2-1.E3	0.0	0.0
1.E3-1.E4	0.0	0.0
1.E4-1.E5	0.0	0.0
1.E5-1.E6	0.0	0.0
1.E6-1.E7	0.0	0.0
1.E7-OVER	0.0	0.0
TOTAL	24.000	5.629E 03

Table 71

 ** ORBITAL FLUX STUDY WITH COMPOSITE PARTICLE ENVIRONMENTS: VETTES AP5, AP6, AP7; AE4, AE5, FOR SOLAR MAXIMUM **** UNIFLX OF 1973 **
 ** ELECTRON FLUXES EXPONENTIALLY DECAYED TO 1970.0 WITH LIFETIMES: E.G. STASSINOPoulos P. VERZARIU ** CUTOFF TIMES: **
 ** MAGNETIC COORDINATES B AND L COMPUTED BY INVARA OF 1972 WITH ALLWAG, MODEL 4: CAINGSWEEENEY 120-TERM POGO 8/69 * TIME= 1974.0 **
 ** VEHICLE: SATS ** INCLINATION= 0DEG ** PERIGEE= 400KM ** APOGEE= 400KM ** B/L ORBIT TAPE: TD6794 ** PERIOD= 1.543 **

 ***** ELECTRONS *****

***** SPECTRUM IN PERCENT DELTA ENERGY *****

* EXPOSURE INDEX: ENERGY > 500MEV *

ENERGY RANGES (MEV)	AVERAGED TOTAL FLUX #/CM**2/SEC	AVERAGED TOTAL FLUX #/CM**2/DAY	SPECTRUM PER CENT	ENERGY LEVELS (MEV)	AVERAGED INTEG. FLUX #/CM**2/SEC	AVERAGED INTEG. FLUX #/CM**2/DAY	INTENSITY RANGES #/CM**2/SEC	EXPOSURE DURATION (HOURS)	TOTAL # OF ACCUMULATED PARTICLES
0-0.500	9.429E-03	8.147E-02	14.772	0	6.363E-02	5.515E-03	ZERO FLUX	23.100	0.0
0.500-1.00	3.972E-03	3.432E-02	6.223	0.250	5.754E-02	4.972E-03	1.F0-1.F1	0.900	4.700E-03
1.00-1.50	2.960E-03	2.557E-02	4.637	0.500	5.440E-02	4.700E-03	1.E1-1.E2	0.0	0.0
1.50-2.00	4.387E-03	3.790E-02	6.873	0.750	5.199E-02	4.492E-03	1.E2-1.E3	0.0	0.0
2.00-2.50	5.126E-03	4.429E-02	8.031	1.00	5.043E-02	4.357E-03	1.E3-1.E4	0.0	0.0
2.50-3.00	6.626E-03	5.725E-02	10.381	1.25	4.897E-02	4.231E-03	1.E4-1.E5	0.0	0.0
3.00-4.00	2.282E-02	1.972E-03	35.759	1.50	4.747E-02	4.101E-03	1.E5-1.E6	0.0	0.0
4.00-5.00	8.504E-03	7.347E-02	13.323	1.75	4.579E-02	3.956E-03	1.E6-1.E7	0.0	0.0
5.00-OVER	0.0	0.0	0.0	2.00	4.308E-02	3.722E-03	1.E7-OVER	0.0	0.0
				2.50	3.795E-02	3.279E-03			
TOTAL	6.363E-02	5.515E-03	100.000	3.00	3.133E-02	2.707E-03	TOTAL	24.000	4.700E-03
				3.50	2.721E-02	2.351E-03			
				4.00	8.504E-03	7.347E-02			
				4.50	0.0	0.0			
				5.00	0.0	0.0			

Table 72

 ** ORBITAL FLUX STUDY WITH COMPOSITE PARTICLE ENVIRONMENTS: VETTES AP5, AP6, AP7; AE4, AE5, FOR SOLAR MAXIMUM *** UNIFLX OF 1973 **
 ** ELECTRON FLUXES EXPONENTIALLY DECAYED TO 1970. 0 WITH LIFETIMES: E.G. STASSINOPoulos, VERZARIU ** CUTOFF TIMES: **
 ** MAGNETIC COORDINATES B AND L COMPUTED BY INVARA OF 1972 WITH ALLMAG, MODEL 4: CAINE SWEENEY 120-TERM POGO 8/69 * TIME= 1974.0 **
 ** VEHICLE : SATS ** INCLINATION= 30DEG ** PERIGEE= 400KM ** APOGEE= 400KM ** B/L ORBIT TAPE: TD6794 ** PERIOD= 1.543 **

***** LOW ENERGY PROTONS *****

***** SPECTRUM IN PERCENT DELTA ENERGY *****

ENERGY RANGES (MEV)	AVERAGED TOTAL FLUX #/CM**2/SEC	AVERAGED TOTAL FLUX #/CM**2/DAY	SPECTRUM PER CENT
.100-.500	3.966E 01	3.427E 06	15.263
.500-.900	3.284E 01	2.837E 06	13.465
.900-1.10	1.387E 01	1.199E 06	5.688
1.10-1.50	2.413E 01	2.085E 06	9.893
1.50-2.00	2.457E 01	2.123E 06	10.075
2.00-2.50	1.968E 01	1.701E 06	8.071
2.50-3.00	1.586E 01	1.371E 06	6.505
3.00-3.50	1.285E 01	1.110E 06	5.269
3.50-OVER	6.042E 01	5.220E 06	24.771
TOTAL	2.439E 02	2.107E 07	100.000

*** COMPOSITE ORBIT SPECTRUM ***

ENERGY LEVELS (MEV)	AVERAGED INTEG. FLUX #/CM**2/SEC	AVERAGED INTEG. FLUX #/CM**2/DAY
.100	2.439E 02	2.107E 07
.300	2.232E 02	1.928E 07
.500	2.042E 02	1.765E 07
.700	1.869E 02	1.615E 07
.900	1.714E 02	1.481E 07
1.10	1.575E 02	1.361E 07
1.30	1.449E 02	1.252E 07
1.50	1.334E 02	1.152E 07
1.75	1.204E 02	1.040E 07
2.00	1.088E 02	9.402E 06
2.25	9.844E 01	8.505E 06
2.50	8.913E 01	7.701E 06
2.75	8.078E 01	6.979E 06
3.00	7.327E 01	6.330E 06
3.50	6.042E 01	5.220E 06

* EXPOSURE INDEX: ENERGY >.100MEV *

INTENSITY RANGES #/CM**2/SEC	EXPOSURE DURATION (HOURS)	TOTAL # OF ACCUMULATED PARTICLES
ZERO FLUX	20.567	0.0
1.E0-1.E1	0.417	6.820E 03
1.E1-1.E2	0.683	1.028E 05
1.E2-1.E3	0.700	9.671E 05
1.E3-1.E4	1.633	2.000E 07
1.E4-1.E5	0.0	0.0
1.E5-1.E6	0.0	0.0
1.E6-1.E7	0.0	0.0
1.E7-OVER	0.0	0.0
TOTAL	24.000	2.107E 07

 ** ORBITAL FLUX STUDY WITH COMPOSITE PARTICLE ENVIRONMENTS: VETTES AP5, AP6, AP7; AE4, AE5, FOR SOLAR MAXIMUM *** UNIFLX OF 1973 **
 ** ELECTRON FLUXES EXPONENTIALLY DECAYED TO 1970.0 WITH LIFETIMES: E.G. STASSINGPOULOS & VERZARIU ** CUTOFF TIMES: **
 ** MAGNETIC COORDINATES B AND L COMPUTED BY INVARA OF 1972 WITH ALLMAG. MODEL 4: CAINCSEENEY 120-TERM POGO 8/69 * TIME= 1974.0 **
 ** VEHICLE : SATS ** INCLINATION= 30DEG ** PERIGEE= 400KM ** APOGEE= 400KM ** BAL ORBIT TAPE: TD6794 ** PERIOD= 1.543 **

***** HIGH-ENERGY-PROTONS *****

***** SPECTRUM IN PERCENT DELTA ENERGY *****

*** COMPOSITE-ORBIT SPECTRUM ***

* EXPOSURE INDEX: ENERGY > 5.00MEV *

ENERGY RANGES (MEV)	AVERAGED TOTAL FLUX #/CM**2/SEC	AVERAGED TOTAL FLUX #/CM**2/DAY	SPECTRUM PER CENT	ENERGY LEVELS (MEV)	AVERAGED INTEG. FLUX #/CM**2/SEC	AVERAGED INTEG. FLUX #/CM**2/DAY	INTENSITY RANGES	EXPOSURE DURATION (HOURS)	TOTAL # OF ACCUMULATED PARTICLES
3.00-5.00	2.906E 01	2.511E 06	39.658	3.00	7.327E 01	6.330E 06	ZERO FLUX	20.900	0.0
5.00-10.0	1.348E 01	1.165E 06	18.399	4.00	4.996E 01	4.317E 06	1.E0-1.E1	0.650	1.054E 04
10.0-15.0	6.044E 00	5.222E 05	8.249	5.00	4.421E 01	3.820E 06	1.E1-1.E2	0.650	1.168E 05
15.0-20.0	2.463E 00	2.128E 05	3.362	7.00	3.677E 01	3.177E 06	1.E2-1.E3	1.300	2.324E 06
20.0-25.0	1.612E 00	1.393E 05	2.201	10.0	3.073E 01	2.655E 06	1.E3-1.E4	0.300	1.368E 06
25.0-30.0	1.442E 00	1.246E 05	1.968	12.0	2.812E 01	2.430E 06	1.E4-1.E5	0.0	0.0
30.0-50.0	4.485E 00	3.875E 05	6.122	15.0	2.459E 01	2.133E 06	1.E5-1.E6	0.0	0.0
50.0-100.	7.156E 00	6.183E 05	9.767	18.0	2.292E 01	1.980E 06	1.E6-1.E7	0.0	0.0
100.-OVER	7.527E 00	6.503E 05	10.273	20.0	2.222E 01	1.920E 06	1.E7-OVER	0.0	0.0
				25.0	2.061E 01	1.781E 06			
TOTAL	7.327E 01	6.330E 06	100.000	30.0	1.917E 01	1.666E 06	TOTAL	24.000	3.020E 06
				50.0	1.468E 01	1.269E 06			
				60.0	1.279E 01	1.105E 06			
				70.0	1.117E 01	9.649E 05			
				100.	7.527E 00	6.503E 05			

Table 74

 ** ORBITAL FLUX STUDY WITH COMPOSITE PARTICLE ENVIRONMENTS: VETTES AP5, AP6, AP7; AE4, AFS. FOR SOLAR MAXIMUM **** UNIFLX OF 1973 **
 ** ELECTRON FLUXES EXPONENTIALLY DECAYED TO 1970. 0 WITH LIFETIMES: E.G. STASSINOPOULOS P. VERZARIU ** CUTOFF TIMES: **
 ** MAGNETIC COORDINATES B AND L COMPUTED BY INVARA OF 1972 WITH ALLMAG, MODEL 4: CAINESWEEFNEY 120-TERM POGO 8/69 * TIME= 1974.0 **
 ** VEHICLE: SATS ** INCLINATION= 30DEG ** PERIGEE= 400KM ** APOGEE= 400KM ** B/L ORBIT TAPE: TD6794 ** PERIOD= 1.543 **

 ELECTRONS

***** SPECTRUM IN PERCENT DELTA ENERGY *****

ENERGY RANGES (MEV)	AVERAGED TOTAL FLUX #/CM**2/SEC	AVERAGED TOTAL FLUX #/CM**2/DAY	SPECTRUM PER CENT
0 - 0.500	3.987E 04	3.444E 09	97.001
0.500-1.00	1.020E 03	8.816E 07	2.483
1.00-1.50	1.028E 02	8.881E 06	0.250
1.50-2.00	4.895E 01	4.230E 06	0.119
2.00-2.50	3.534E 01	3.053E 06	0.086
2.50-3.00	1.701E 01	1.469E 06	0.041
3.00-4.00	7.863E 00	6.794E 05	0.019
4.00-5.00	1.033E-01	8.924E 03	0.000
5.00-OVER	0.0	0.0	0.0
TOTAL	4.110E 04	3.551E 09	100.000

*** COMPOSITE ORBIT SPECTRUM ***

ENERGY LEVELS >(MEV)	AVERAGED INTFG.FLUX #/CM**2/SEC	AVERAGED INTFG.FLUX #/CM**2/DAY
0	4.110E 04	3.551E 09
0.250	5.592E 03	4.832E 08
0.500	1.232E 03	1.065E 08
0.750	4.096E 02	3.539E 07
1.00	2.120E 02	1.832E 07
1.25	1.538E 02	1.329E 07
1.50	1.093E 02	9.440E 06
1.75	8.424E 01	7.278E 06
2.00	6.031E 01	5.211E 06
2.50	2.497E 01	2.158E 06
3.00	7.967E 00	6.883E 05
3.50	9.562E-01	8.261E 04
4.00	1.033E-01	8.924E 03
4.50	0.0	0.0
5.00	0.0	0.0

* EXPOSURE INDEX: ENERGY >.500MEV *

INTENSITY RANGES #/CM**2/SEC	EXPOSURE DURATION (HOURS)	TOTAL # OF ACCUMULATED PARTICLES
ZERO FLUX	21.500	0.0
1.E0-1.E1	0.350	5.478E 03
1.E1-1.E2	0.467	7.443E 04
1.E2-1.E3	0.483	8.048E 05
1.E3-1.E4	0.633	1.008E 07
1.E4-1.E5	0.483	6.027E 07
1.E5-1.E6	0.083	3.525E 07
1.E6-1.E7	0.0	0.0
1.E7-OVER	0.0	0.0
TOTAL	24.000	1.065E 08

Table 7.5

 ** ORBITAL FLUX STUDY WITH COMPOSITE PARTICLE ENVIRONMENTS: VETTES AP5, AP6, AP7; AE4, AE5, FOR SOLAR MAXIMUM **** UNIFLX OF 1973 **
 ** ELECTRON FLUXES EXPONENTIALLY DECAYED TO 1970, G WITH LIFETIMES: E.G. STASSINOPOULOS & P. VERZARIU ** CUTOFF TIMES: **
 ** MAGNETIC COORDINATES B AND L COMPUTED BY INVARA OF 1972 WITH ALLMAG, MODEL 4: CAINGSWFENEY 120-TERM POGO 8/69 * TIME= 1974.0 **
 ** VEHICLE : SATS ** INCLINATION= 60DEG ** PERIGEE= 400KM ** APOGEE= 400KM ** B/L ORBIT TAPE: TD6794 ** PERIOD= 1.543 **

***** LOW ENERGY PROTONS *****

***** SPECTRUM IN PERCENT DELTA ENERGY *****

ENERGY RANGES (MEV)	AVERAGED TOTAL FLUX #/CM**2/SEC	AVERAGED TOTAL FLUX #/CM**2/DAY	SPECTRUM PER CENT
.100-.500	4.923E 03	4.253E 08	79.661
.500-.900	6.374E 02	5.507E 07	10.317
.900-1.10	1.237E 02	1.069E 07	2.003
1.10-1.50	1.439E 02	1.243E 07	2.329
1.50-2.00	9.387E 01	8.110E 06	1.519
2.00-2.50	5.574E 01	4.816E 06	0.902
2.50-3.00	3.639E 01	3.317E 06	0.621
3.00-3.50	2.873E 01	2.482E 06	0.465
3.50-OVER	1.336E 02	1.155E 07	2.163
TOTAL	6.178E 03	5.338E 08	100.000

*** COMPOSITE ORBIT SPECTRUM ***

ENERGY LEVELS >(MEV)	AVERAGED INTEG.FLUX #/CM**2/SEC	AVERAGED INTEG.FLUX #/CM**2/DAY
.100	6.178E 03	5.338E 08
.300	2.168E 03	1.873E 08
.500	1.255E 03	1.085E 08
.700	8.349E 02	7.214E 07
.900	6.179E 02	5.339E 07
1.10	4.942E 02	4.270E 07
1.30	4.102E 02	3.544E 07
1.50	3.503E 02	3.027E 07
1.75	2.963E 02	2.560E 07
2.00	2.565E 02	2.216E 07
2.25	2.256E 02	1.949E 07
2.50	2.007E 02	1.734E 07
2.75	1.800E 02	1.555E 07
3.00	1.623E 02	1.403E 07
3.50	1.336E 02	1.155E 07

* EXPOSURE INDEX: ENERGY >.100MEV *

INTENSITY RANGES #/CM**2/SEC	EXPOSURE DURATION (HOURS)	TOTAL # OF ACCUMULATED PARTICLES
ZERO FLUX	19.850	0.0
1.E0-1.E1	0.417	4.851E 03
1.E1-1.E2	0.400	5.531E 04
1.E2-1.E3	0.467	7.885E 05
1.E3-1.E4	1.300	2.152E 07
1.E4-1.E5	1.100	1.711E 08
1.E5-1.E6	0.467	3.403E 08
1.E6-1.E7	0.0	0.0
1.E7-OVER	0.0	0.0
TOTAL	24.000	5.338E 08

Table 76

 ** ORBITAL FLUX STUDY WITH COMPOSITE PARTICLE ENVIRONMENTS: VETTES AP5, AP6, AP7; AE4, AE5, FOR SOLAR MAXIMUM **** UNIFLX OF 1973 **
 ** SLECTION FLUXES EXPONENTIALLY DECAYED TO 1979, 9 WITH LIFETIMES: F.G. STASSINOPOULOS & P. VERZARIU ** CUTOFF TIMES: **
 ** MAGNETIC COORDINATES B AND L COMPUTED BY INVARA OF 1972 WITH ALLMAG, MODEL 4: CAINGSWEFNEY 120-TERM POGO 8/69 * TIME= 1974.0 **
 ** VEHICLE: SATS ** INCLINATION= 60DFG ** PERIGEE= 400KM ** APOGEE= 400KM ** 8/L ORBIT TAPE: TD6794 ** PERIOD= 1.543 **

***** HIGH ENERGY PROTONS *****

***** SPECTRUM IN PERCENT DELTA ENERGY *****

ENERGY RANGES (MEV)	AVERAGED TOTAL FLUX #/CM**2/SEC	AVERAGED TOTAL FLUX #/CM**2/DAY	SPECTRUM PER CENT
3.00-5.00	7.967E 01	6.883E 06	49.070
5.00-10.0	4.988E 01	4.309E 06	30.721
10.0-15.0	1.147E 01	9.911E 05	7.066
15.0-20.0	3.511E 00	3.033E 05	2.162
20.0-25.0	1.955E 00	1.693E 05	1.207
25.0-30.0	1.601E 00	1.383E 05	0.986
30.0-50.0	4.355E 00	3.767E 05	2.685
50.0-100.0	5.121E 00	4.425E 05	3.155
100.0-OVER	4.786E 00	4.135E 05	2.948
TOTAL	1.623E 02	1.403E 07	100.000

*** COMPOSITE ORBIT SPECTRUM ***

ENERGY LEVELS >(MEV)	AVERAGED INTEG.FLUX #/CM**2/SEC	AVERAGED INTEG.FLUX #/CM**2/DAY
3.00	1.623E 02	1.403E 07
4.00	1.111E 02	9.603E 06
5.00	8.268E 01	7.144E 06
7.00	4.994E 01	4.315E 06
10.0	3.281E 01	2.835E 06
12.0	2.729E 01	2.358E 06
15.0	2.134E 01	1.844E 06
18.0	1.875E 01	1.620E 06
20.0	1.783E 01	1.540E 06
25.0	1.587E 01	1.371E 06
30.0	1.427E 01	1.233E 06
50.0	9.908E 00	8.560E 05
60.0	8.500E 00	7.344E 05
70.0	7.329E 00	6.332E 05
100.0	4.786E 00	4.135E 05

* EXPOSURE INDEX: ENERGY >5.00MEV *

INTENSITY RANGES #/CM**2/SEC	EXPOSURE DURATION (HOURS)	TOTAL # OF ACCUMULATED PARTICLES
ZERO FLUX	21.217	0.0
1.E0-1.E1	0.450	7.499E 03
1.E1-1.E2	0.717	1.167E 05
1.E2-1.E3	0.783	1.235E 06
1.E3-1.E4	0.833	5.784E 06
1.E4-1.E5	0.0	0.0
1.E5-1.E6	0.0	0.0
1.E6-1.E7	0.0	0.0
1.E7-OVER	0.0	0.0
TOTAL	24.000	7.144E 06

 ** ORBITAL FLUX STUDY WITH COMPOSITE PARTICLE ENVIRONMENTS: VETTES APS, AP6, AP7; AE4, AFS, FOR SOLAR MAXIMUM *** UNIFLX OF 1973 **
 ** ELECTRON FLUXES EXPONENTIALLY DECAYED TO 1970.0 WITH LIFETIMES: E.G. STASSINOPOULOS & VERZARIU ** CUTOFF TIMES: **
 ** MAGNETIC COORDINATES B AND L COMPUTED BY INVARA OF 1972 WITH ALLMAG MODEL 4: CAINE & SWEENEY 120-TERM POGO 8/69 * TIME= 1974.0 **
 ** VEHICLE: SATS ** INCLINATION= 60DEG ** PERIGEE= 400KM ** APOGEE= 400KM ** B/L ORBIT TAPE: TD6794 ** PERIOD= 1.543 **

 ELECTRONS

***** SPECTRUM IN PERCENT ALTA ENERGY *****

ENERGY RANGES (MEV)	AVERAGED TOTAL FLUX #/CM**2/SEC	AVERAGED TOTAL FLUX #/CM**2/DAY	SPECTRUM PER CENT
0.0 - 0.500	2.265E 05	1.957E 10	94.532
0.500-1.000	8.685E 03	7.503E 08	3.624
1.000-1.500	2.475E 03	2.139E 08	1.033
1.500-2.000	1.066E 03	9.210E 07	0.445
2.000-2.500	4.927E 02	4.257E 07	0.206
2.500-3.000	2.349E 02	2.070E 07	0.098
3.000-4.000	1.448E 02	1.251E 07	0.060
4.000-5.000	4.348E 01	3.757E 06	0.002
5.000-OVER	0.0	0.0	0.0
TOTAL	2.396E 05	2.070E 10	100.000

*** COMPOSITE ORBIT SPECTRUM ***

ENERGY LEVELS >(MEV)	AVERAGED INTEG.FLUX #/CM**2/SEC	AVERAGED INTEG.FLUX #/CM**2/DAY
0.0	2.396E 05	2.070E 10
0.250	3.627E 04	3.134E 09
0.500	1.310E 04	1.132E 09
0.750	7.428E 03	6.418E 08
1.000	4.418E 03	3.817E 08
1.250	2.922E 03	2.525E 08
1.500	1.943E 03	1.678E 08
1.750	1.306E 03	1.128E 08
2.000	8.768E 02	7.575E 07
2.500	3.840E 02	3.318E 07
3.000	1.491E 02	1.288E 07
3.500	3.942E 01	3.406E 06
4.000	4.348E 01	3.757E 06
4.500	8.145E 00	7.037E 05
5.000	0.0	0.0

* EXPOSURE INDEX: ENERGY >.500MEV *

INTENSITY RANGES #/CM**2/SEC	EXPOSURE DURATION (HOURS)	TOTAL # OF ACCUMULATED PARTICLES
ZERO FLUX	16.817	0.0
1.E0-1.E1	0.283	4.861E 03
1.E1-1.E2	0.367	7.239E 04
1.E2-1.E3	0.883	1.349E 06
1.E3-1.E4	1.300	2.024E 07
1.E4-1.E5	3.333	5.404E 08
1.E5-1.E6	1.017	5.700E 08
1.E6-1.E7	0.0	0.0
1.E7-OVER	0.0	0.0
TOTAL	24.000	1.132E 09

Table 78

 ** ORBITAL FLUX STUDY WITH COMPOSITE PARTICLE ENVIRONMENTS: VLTTS APS, AP6, AP7, AP4, AP5, FOR SOLAR MAXIMUM **** UNIFLX OF 1973 **
 ** ELECTRON FLUXES EXPONENTIALLY DECAYED TO 1971.0 WITH LIFETIMES: (G.STASSINOPOULOS,P.VEFZARIU ** CUTOFF TIMES: **
 ** MAGNETIC COORDINATES 1 AND 2 COMPUTED BY INVARA OF 1972 WITH ALLMAG, MODEL 4: GAINESWANEY 120-TERM POGO 8/69 * TIME= 1974.0 **
 ** VHFILFL: SATS ** INCLINATION= 90DEG ** PERIGEE= 400KM ** APOGEE= 400KM ** R/L ORBIT TAPE: TD6794 ** PERIOD= 1.543 **

 ***** LOW ENERGY PROTONS *****

***** SPECTRUM IN PERCENT ELECTRON ENERGY *****

ENERGY RANGES (MEV)	AVERAGED TOTAL FLUX #/CM**2/SEC	AVERAGED TOTAL FLUX #/CM**2/DAY	SPECTRUM PER CENT
.510-.550	6.711E 03	5.154E 04	88.497
.550-.600	3.725E 02	3.270E 07	5.587
.600-1.10	7.229E 01	6.246E 06	1.064
1.10-1.50	8.609E 01	7.473E 06	1.267
1.50-2.00	5.905E 01	5.102E 06	8.869
2.00-2.50	7.765E 01	3.291E 06	0.545
2.50-3.00	2.660E 01	2.259E 06	0.392
3.00-3.50	2.049E 01	1.771E 06	0.302
3.50-7000	1.003E 02	8.665E 06	1.477
TOTAL	6.793E 03	5.869E 08	100.000

*** COMPOSITE ORBIT SPECTRUM ***

ENERGY LEVELS >(MEV)	AVERAGED INTEG.FLUX #/CM**2/SEC	AVERAGED INTEG.FLUX #/CM**2/DAY
.100	6.793E 03	5.869E 08
.300	1.496E 03	1.292E 08
.500	7.814E 02	6.751E 07
.700	5.280E 02	4.562E 07
.900	4.019E 02	3.472E 07
1.10	3.296E 02	2.848E 07
1.30	2.797E 02	2.417E 07
1.50	2.435E 02	2.104E 07
1.75	2.099E 02	1.814E 07
2.00	1.844E 02	1.594E 07
2.25	1.642E 02	1.418E 07
2.50	1.474E 02	1.274E 07
2.75	1.331E 02	1.150E 07
3.00	1.208E 02	1.044E 07
3.50	1.003E 02	8.666E 06

* EXPOSURE INDEX:ENERGY >.100MEV *

INTENSITY RANGES #/CM**2/SEC	EXPOSURE DURATION (HOURS)	TOTAL # OF ACCUMULATED PARTICLES
ZERO FLUX	20.567	0.0
1.50-1.51	0.267	2.955E 03
1.51-1.52	0.417	6.335E 04
1.52-1.53	0.367	5.905E 05
1.53-1.54	0.983	1.632E 07
1.54-1.55	0.950	1.429E 08
1.55-1.56	0.450	4.270E 08
1.56-1.57	0.0	0.0
1.57-OVER	0.0	0.0
TOTAL	24.000	5.869E 08

 ** ORBITAL FLUX STUDY WITH COMPOSITE PARTICLE ENVIRONMENTS: VETTES AP5, AP6, AP7; AE4, AES, FOR SOLAR MAXIMUM **** UNIFLX OF 1973 **
 ** ELECTRON FLUXES EXPONENTIALLY DECAYED TO 1970.0 WITH LIFETIMES: E.G. STASSINGPOULOS & P. VERZARIU ** CUTOFF TIMES: **
 ** MAGNETIC COORDINATES B AND L COMPUTED BY INVARA OF 1972 WITH ALLMAG, MODEL 4: CAINGSWEFNEY 120-TERM POGO 8/69 * TIME= 1974.0 **
 ** VEHICLE: SATS ** INCLINATION= 90DEG ** PERIGEE= 400KM ** APOGEE= 400KM ** B/L ORBIT TAPE: TD6794 ** PERIOD= 1.543 **

***** HIGH ENERGY PROTONS *****

***** SPECTRUM IN PERCENT DELTA ENERGY *****

* EXPOSURE INDEX: ENERGY >5.00 MEV *

ENERGY RANGES (MEV)	AVERAGED TOTAL FLUX #/CM**2/SEC	AVERAGED TOTAL FLUX #/CM**2/DAY	SPECTRUM PER CENT	ENERGY LEVFLS (MEV)	AVERAGED INTEG. FLUX #/CM**2/SEC	AVERAGED INTEG. FLUX #/CM**2/DAY	INTENSITY RANGES #/CM**2/SEC	EXPOSURE DURATION (HOURS)	TOTAL # OF ACCUMULATED PARTICLES
3.00-5.00	5.762E 01	4.983E 06	47.747	3.00	1.208E 02	1.044E 07	ZERO FLUX	21.950	0.0
5.00-10.0	3.727E 01	3.220E 06	30.850	4.00	8.395E 01	7.253E 06	1.E0-1.E1	0.283	4.590E 03
10.0-15.0	8.811E 00	7.613E 05	7.294	5.00	6.312E 01	5.454E 06	1.E1-1.E2	0.550	7.695E 04
15.0-20.0	2.691E 00	2.325E 05	2.228	7.00	3.880E 01	3.352E 06	1.E2-1.E3	0.617	1.065E 06
20.0-25.0	1.520E 00	1.313E 05	1.258	10.0	2.585E 01	2.234E 06	1.E3-1.E4	0.600	4.307E 06
25.0-30.0	1.255E 00	1.084E 05	1.039	12.0	2.163E 01	1.869E 06	1.E4-1.E5	0.0	0.0
30.0-50.0	3.464E 00	2.993E 05	2.868	15.0	1.704E 01	1.473E 06	1.E5-1.E6	0.0	0.0
50.0-100.	4.193E 00	3.623E 05	3.471	18.0	1.506E 01	1.301E 06	1.E6-1.E7	0.0	0.0
100.-OVER	3.926E 00	3.387E 05	3.245	20.0	1.435E 01	1.240E 06	1.E7-OVER	0.0	0.0
				25.0	1.283E 01	1.109E 06			
TOTAL	1.208E 02	1.044E 07	100.000	30.0	1.158E 01	1.000E 06	TOTAL	24.000	5.454E 06
				50.0	8.113E 00	7.010E 05			
				60.0	6.966E 00	6.019E 05			
				70.0	6.006E 00	5.189E 05			
				100.	3.920E 00	3.387E 05			

Table 80

 ** ORBITAL FLUX STUDY WITH COMPOSITE PARTICLE ENVIRONMENTS: VETTES APS, AP6, AP7; AE4, AE5, FOR SOLAR MAXIMUM **** UNIFLX OF 1973 **
 ** ELECTRON FLUXES EXPONENTIALLY DECAYED TO 1970. 0 WITH LIFETIMES: E.G. STASSINOPOULOS & P. VERZARIU ** CUTOFF TIMES: **
 ** MAGNETIC COORDINATES B AND L COMPUTED BY INVARA OF 1972 WITH ALLMAG, MODEL 4: CAINE & SWFENY 120-TERM POGO 8/69 * TIME= 1974.0 **
 ** VEHICLE: SATS ** INCLINATION= 90DEG ** PERIGEE= 400KM ** APOGEE= 400KM ** B/L ORBIT TAPE: TD6794 ** PERIOD= 1.543 **

 ***** ELECTRONS *****

***** SPECTRUM IN PERCENT DELTA ENERGY *****

ENERGY RANGES (MEV)	AVERAGED TOTAL FLUX #/CM**2/SEC	AVERAGED TOTAL FLUX #/CM**2/DAY	SPECTRUM PER CENT
0 -0.500	2.119E 05	1.831E 10	94.306
0.500-1.00	8.536E 03	7.375E 08	3.798
1.00-1.50	2.454E 03	2.120E 08	1.092
1.50-2.00	1.015E 03	8.772E 07	0.452
2.00-2.50	4.499E 02	3.887E 07	0.200
2.50-3.00	2.107E 02	1.821E 07	0.094
3.00-4.00	1.284E 02	1.109E 07	0.057
4.00-5.00	3.822E 00	3.302E 05	0.002
5.00-OVER	0.0	0.0	0.0
TOTAL	2.247E 05	1.942E 10	100.000

*** COMPOSITE ORBIT SPECTRUM ***

ENERGY LEVELS >(MEV)	AVERAGED INTEG.FLUX #/CM**2/SEC	AVERAGED INTEG.FLUX #/CM**2/DAY
0	2.247E 05	1.942E 10
0.250	3.380E 04	2.920E 09
0.500	1.280E 04	1.106E 09
0.750	7.233E 03	6.249E 08
1.000	4.262E 03	3.682E 08
1.25	2.767E 03	2.391E 08
1.50	1.808E 03	1.562E 08
1.75	1.197E 03	1.034E 08
2.00	7.929E 02	6.850E 07
2.50	3.429E 02	2.963E 07
3.00	1.322E 02	1.142E 07
3.50	3.514E 01	3.036E 06
4.00	3.822E 00	3.302E 05
4.50	6.858E 02	5.926E 03
5.00	0.0	0.0

* EXPOSURE INDEX: ENERGY >.500MEV *

INTENSITY RANGES #/CM**2/SEC	EXPOSURE DURATION (HOURS)	TOTAL # OF ACCUMULATED PARTICLES
ZERO FLUX	17.350	0.0
1.E0-1.E1	0.250	4.572E 03
1.E1-1.E2	0.433	7.180E 04
1.E2-1.E3	0.600	8.550E 05
1.E3-1.E4	1.117	1.641E 07
1.E4-1.E5	3.317	5.420E 08
1.E5-1.E6	0.933	5.465E 08
1.E6-1.E7	0.0	0.0
1.E7-OVER	0.0	0.0
TOTAL	24.000	1.106E 09

 ** ORBITAL FLUX STUDY WITH COMPOSITE PARTICLE ENVIRONMENTS: VETTES AP5, AP6, AP7; AE4, AE5, FOR SOLAR MAXIMUM *** UNIFLX OF 1973 **
 ** ELECTRON FLUXES EXPONENTIALLY DECAYED TO 1970.0 WITH LIFETIMES: E.G. STASSINOROULOS & P. VERZARIU ** CUTOFF TIME: **
 ** MAGNETIC COORDINATES R AND L COMPUTED BY INVARA OF 1972 WITH ALLMAG. MODEL 4: CAIN & SWEENEY 120-TERM POGO 2/69 * TIME = 1976.0 **
 ** VEHICLE: - SATS ** INCLINATION = 0 DEG ** PERIGEE = 600KM ** APOGEE = 500KM ** S/L ORBIT TAPE: TD7964 ** PERIOD = 1.611 **

 ***** LOW ENERGY PROTONS *****

***** SPECTRUM IN PERCENT DELTA ENERGY *****

ENERGY RANGES (MEV)	AVERAGED TOTAL FLUX #/CM**2/SEC	AVERAGED TOTAL FLUX #/CM**2/DAY	SPECTRUM PER CENT
.100-.500	3.633E 00	3.139E 05	13.628
.500-.900	4.430E 00	3.827E 05	16.616
.900-1.10	3.064E 00	2.647E 05	11.494
1.10-1.50	4.363E 00	3.770E 05	16.366
1.50-2.00	3.327E 00	2.875E 05	12.481
2.00-2.50	1.982E 00	1.712E 05	7.435
2.50-3.00	1.236E 00	1.068E 05	4.637
3.00-3.50	8.119E-01	7.015E 04	3.046
3.50-OVER	3.812E 00	3.293E 05	14.298
TOTAL	2.666E 01	2.303E 06	100.000

*** COMPOSITE ORBIT SPECTRUM ***

ENERGY LEVELS >(MEV)	AVERAGED INTEG.FLUX #/CM**2/SEC	AVERAGED INTEG.FLUX #/CM**2/DAY
.100	2.666E 01	2.303E 06
.300	2.477E 01	2.140E 06
.500	2.303E 01	1.989E 06
.700	2.141E 01	1.850E 06
.900	1.860E 01	1.607E 06
1.10	1.553E 01	1.342E 06
1.30	1.310E 01	1.132E 06
1.50	1.117E 01	9.650E 05
1.75	9.283E 00	8.021E 05
2.00	7.842E 00	6.775E 05
2.25	6.729E 00	5.814E 05
2.50	5.860E 00	5.063E 05
2.75	5.173E 00	4.469E 05
3.00	4.624E 00	3.995E 05
3.50	3.812E 00	3.293E 05

* EXPOSURE INDEX: ENERGY >1.00MEV *

INTENSITY RANGES #/CM**2/SEC	EXPOSURE DURATION (HOURS)	TOTAL # OF ACCUMULATED PARTICLES
ZERO FLUX	16.217	0.0
1.E0-1.E1	1.100	2.043E 04
1.E1-1.E2	2.883	3.384E 05
1.E2-1.E3	1.800	1.944E 06
1.E3-1.E4	0.0	0.0
1.E4-1.E5	0.0	0.0
1.E5-1.E6	0.0	0.0
1.E6-1.E7	0.0	0.0
1.E7-OVER	0.0	0.0
TOTAL	24.000	2.303E 06

Table 82

 ** ORBITAL FLUX STUDY WITH COMPOSITE PARTICLE ENVIRONMENTS: VETTES AP5, AP6, AP7; AE4, AE5. FOR SOLAR MAXIMUM **** UNIFLX OF 1973 **
 ** ELECTRON FLUXES EXPONENTIALLY DECAYED TO 1970. 0 WITH LIFETIMES: E.G. STASSINPOULOS&P. VERZARIU ** CUTOFF TIMES: **
 ** MAGNETIC COORDINATES B AND L COMPLETED BY INVARA OF 1972 WITH ALLMAG, MODEL 4: CAINE SWEENEY 120-TERM POGO 8/69 * TIME= 1974.0 **
 ** VEHICLE: SATS ** INCLINATION= 0DEG ** PERIGEE= 600KM ** APOGEE= 600KM ** B/L ORBIT TAPE: TD7964 ** PERIOD= 1.611 **

 ***** HIGH ENERGY PROTONS *****

***** SPECTRUM IN PERCENT DELTA ENERGY *****

ENERGY RANGES (MEV)	AVERAGED TOTAL FLUX #/CM**2/SEC	AVERAGED TOTAL FLUX #/CM**2/DAY	SPECTRUM PER CENT
3.00-5.00	1.620E 00	1.400E 05	35.041
5.00-10.0	4.378E-01	3.783E 04	9.469
10.0-15.0	2.363E-01	2.042E 04	5.111
15.0-20.0	7.741E-02	6.688E 03	1.674
20.0-25.0	4.008E-02	3.463E 03	0.867
25.0-30.0	3.893E-02	3.364E 03	0.842
30.0-50.0	1.509E-01	1.304E 04	3.264
50.0-100.	5.557E-01	4.801E 04	12.019
100.-OVER	1.466E 00	1.267E 05	31.712
TOTAL	4.624E 00	3.995E 05	100.000

*** COMPOSITE ORBIT SPECTRUM ***

ENERGY LEVELS >(MEV)	AVERAGED INTEG.FLUX #/CM**2/SEC	AVERAGED INTEG.FLUX #/CM**2/DAY
3.00	4.624E 00	3.995E 05
4.00	3.248E 00	2.806E 05
5.00	3.003E 00	2.595E 05
7.00	2.775E 00	2.397E 05
10.0	2.566E 00	2.217E 05
12.0	2.468E 00	2.133E 05
15.0	2.329E 00	2.012E 05
18.0	2.268E 00	1.960E 05
20.0	2.252E 00	1.946E 05
25.0	2.212E 00	1.911E 05
30.0	2.173E 00	1.877E 05
50.0	2.022E 00	1.747E 05
60.0	1.877E 00	1.622E 05
70.0	1.759E 00	1.520E 05
100.	1.466E 00	1.267E 05

* EXPOSURE INDEX: ENERGY >5.00MEV *

INTENSITY RANGES #/CM**2/SEC	EXPOSURE DURATION (HOURS)	TOTAL # OF ACCUMULATED PARTICLES
ZERO FLUX	19.367	0.0
1.E0-1.E1	1.933	2.853E 04
1.E1-1.E2	2.700	2.310E 05
1.E2-1.E3	0.0	0.0
1.E3-1.E4	0.0	0.0
1.E4-1.E5	0.0	0.0
1.E5-1.E6	0.0	0.0
1.E6-1.E7	0.0	0.0
1.E7-OVER	0.0	0.0
TOTAL	24.000	2.595E 05

 ** ORBITAL FLUX STUDY WITH COMPOSITE PARTICLE ENVIRONMENTS: VETTES APS, AP6, AP7; AE4, AE5. FOR SOLAR MAXIMUM *** UNIFLX OF 1973 **
 ** ELECTRON FLUXES EXPONENTIALLY DECAYED TO 1970. 0 WITH LIFETIMES: E.G. STASSINOPOULOS & P. VERZARIU ** CUTOFF TIMES: **
 ** MAGNETIC COORDINATES B AND L COMPUTED BY INVARA OF 1972 WITH ALLMAG, MODEL 4: CAIN & SWEEFNEY 120-TERM POGO 2/69 * TIME = 1974.0 **
 ** VEHICLE SAYS ** INCLINATION = 0 DEG ** PERIGEE = 600KM ** APOGEE = 600KM ** B/L ORBIT TAPE: 107964 ** PERIOD = 1.611 **

 ***** ELECTRONICS *****

***** SPECTRUM IN PERCENT DELTA ENERGY *****

ENERGY RANGES (MEV)	AVERAGED TOTAL FLUX #/CM**2/SEC	AVERAGED TOTAL FLUX #/CM**2/DAY	SPECTRUM PER CENT
.0 - .500	8.481E 00	7.327E 05	58.920
.500-1.00	1.573E 00	1.359E 05	10.931
1.00-1.50	8.106E-01	7.004E 04	5.632
1.50-2.00	1.011E 00	8.738E 04	7.026
2.00-2.50	1.032E 00	8.914E 04	7.168
2.50-3.00	6.408E-01	5.537E 04	4.452
3.00-4.00	7.837E-01	6.771E 04	5.445
4.00-5.00	6.142E-02	5.307E 03	0.427
5.00-OVER	0.0	0.0	0.0
TOTAL	1.439E 01	1.244E 06	100.000

*** COMPOSITE ORBIT SPECTRUM ***

ENERGY LEVELS >(MEV)	AVERAGED INTEG.FLUX #/CM**2/SEC	AVERAGED INTEG.FLUX #/CM**2/DAY
.0	1.439E 01	1.244E 06
.250	8.303E 00	7.174E 05
.500	5.913E 00	5.109E 05
.750	4.826E 00	4.169E 05
1.00	4.340E 00	3.749E 05
1.25	3.931E 00	3.397E 05
1.50	3.529E 00	3.049E 05
1.75	3.071E 00	2.653E 05
2.00	2.518E 00	2.175E 05
2.50	1.486E 00	1.284E 05
3.00	8.452E-01	7.302E 04
3.50	3.094E-01	2.673E 04
4.00	6.142E-02	5.307E 03
4.50	0.0	0.0
5.00	0.0	0.0

* EXPOSURE INDEX: ENERGY > 500 MEV *

INTENSITY RANGES #/CM**2/SEC	EXPOSURE DURATION (HOURS)	TOTAL # OF ACCUMULATED PARTICLES
ZERO FLUX	20.367	0.0
1.E0-1.E1	0.833	1.466E 04
1.E1-1.E2	2.700	4.593E 05
1.E2-1.E3	0.100	3.697E 04
1.E3-1.E4	0.0	0.0
1.E4-1.E5	0.0	0.0
1.E5-1.E6	0.0	0.0
1.E6-1.E7	0.0	0.0
1.E7-OVER	0.0	0.0
TOTAL	24.000	5.109E 05

Table 84

 ** ORBITAL FLUX STUDY WITH COMPOSITE PARTICLE ENVIRONMENTS: VETTES AP5, AP6, AP7; AE4, AE5, FOR SOLAR MAXIMUM **** UNIFLX OF 1973 :
 ** ELECTRON FLUXES EXPONENTIALLY DECAYED TO 1970. 0 WITH LIFETIMES: E.G. STASSINOPOULOS & P. VERZARU ** CUTOFF TIMES:
 ** MAGNETIC COORDINATES B AND L COMPUTED BY INVARA OF 1972 WITH ALLMAG. MODEL 4: CAINESWEEENEY 120-TERM POGO 8/69 * TIME= 1974.0
 ** VEHICLE : SATS ** INCLINATION= 30DEG ** PERIGEE= 600KM ** APOGEE= 600KM ** B/L ORBIT TAPE: TD7564 ** PERIOD= 1.611

 ***** LOW ENERGY PROTONS *****

***** SPECTRUM IN PERCENT DELTA ENERGY *****

ENERGY RANGES (MEV)	AVERAGED TOTAL FLUX #/CM**2/SEC	AVERAGED TOTAL FLUX #/CM**2/DAY	SPECTRUM PER CENT
.100-.500	1.330E 02	1.150E 07	16.356
.500-.900	9.995E 01	8.636E 06	12.288
.900-1.10	3.143E 01	2.716E 06	3.866
1.10-1.50	5.713E 01	4.936E 06	7.023
1.50-2.00	6.211E 01	5.366E 06	7.635
2.00-2.50	5.344E 01	4.617E 06	6.569
2.50-3.00	4.618E 01	3.990E 06	5.677
3.00-3.50	4.004E 01	3.460E 06	4.923
3.50-OVER	2.901E 02	2.506E 07	35.663
TOTAL	8.134E 02	7.028E 07	100.000

*** COMPOSITE ORBIT SPECTRUM ***

ENERGY LEVELS >(MEV)	AVERAGED INTEG. FLUX #/CM**2/SEC	AVERAGED INTEG. FLUX #/CM**2/DAY
.100	8.134E 02	7.028E 07
.300	7.439E 02	6.427E 07
.500	6.804E 02	5.878E 07
.700	6.222E 02	5.376E 07
.900	5.804E 02	5.015E 07
1.10	5.490E 02	4.743E 07
1.30	5.195E 02	4.489E 07
1.50	4.918E 02	4.250E 07
1.75	4.596E 02	3.971E 07
2.00	4.297E 02	3.713E 07
2.25	4.020E 02	3.474E 07
2.50	3.763E 02	3.251E 07
2.75	3.524E 02	3.045E 07
3.00	3.301E 02	2.852E 07
3.50	2.901E 02	2.506E 07

* EXPOSURE INDEX: ENERGY >.100MEV *

INTENSITY RANGES #/CM**2/SEC	EXPOSURE DURATION (HOURS)	TOTAL # OF ACCUMULATION PARTICLES
ZERO FLUX	18.917	0.0
1.E0-1.E1	0.533	7.577E 02
1.E1-1.E2	0.700	9.309E 04
1.E2-1.E3	1.350	1.985E 06
1.E3-1.E4	1.700	3.246E 07
1.E4-1.E5	0.800	3.573E 07
1.E5-1.E6	0.0	0.0
1.E6-1.E7	0.0	0.0
1.E7-OVER	0.0	0.0
TOTAL	24.000	7.028E 07

Table 25

 ** ORBITAL FLUX STUDY WITH COMPOSITE PARTICLE ENVIRONMENTS: VETTES AP5, AP6, AP7; AE4, AE5, FOR SOLAR MAXIMUM *** UNIFLX OF 1973.4
 ** ELECTRON FLUXES EXPONENTIALLY DECAYED TO 1970.0 WITH LIFETIMES: E.G. STASSINPOULOS & P. VERZARIU ** CUTOFF TIMES: ***
 ** MAGNETIC COORDINATES B AND L COMPUTED BY INVARA OF 1972 WITH ALLMAG, MODEL 4; CAINE & SWEENEY 120-TERM POGO 2/69 * TIME = 1974.0 **
 ** VEHICLE: SATS ** INCLINATION = 30DEG ** PERIGEE = 600KM ** APOGEE = 600KM ** B/L ORBIT TAPE: TD7964 ** PERIOD = 1.611 **

***** HIGH ENERGY PROTONS *****

***** SPECTRUM IN PERCENT DELTA ENERGY *****

ENERGY RANGES (MEV)	AVERAGED TOTAL FLUX #/CM**2/SEC	AVERAGED TOTAL FLUX #/CM**2/DAY	SPECTRUM PER CENT
3.00-5.00	1.075E 02	9.288E 06	32.562
5.00-10.0	8.449E 01	7.300E 06	25.592
10.0-15.0	3.468E 01	2.996E 06	10.504
15.0-20.0	1.053E 01	9.100E 05	3.190
20.0-25.0	5.584E 00	4.825E 05	1.691
25.0-30.0	5.113E 00	4.418E 05	1.549
30.0-50.0	1.676E 01	1.448E 06	5.076
50.0-100.	2.634E 01	2.276E 06	7.979
100.-OVER	3.914E 01	3.382E 06	11.856
TOTAL	3.301E 02	2.852E 07	100.000

*** COMPOSITE ORBIT SPECTRUM ***

ENERGY LEVELS >(MEV)	AVERAGED INTEG.FLUX #/CM**2/SEC	AVERAGED INTEG.FLUX #/CM**2/DAY
3.00	3.301E 02	2.852E 07
4.00	2.553E 02	2.205E 07
5.00	2.226E 02	1.924E 07
7.00	1.749E 02	1.511E 07
10.0	1.381E 02	1.194E 07
12.0	1.229E 02	1.062E 07
15.0	1.035E 02	8.940E 06
18.0	9.532E 01	8.235E 06
20.0	9.294E 01	8.030E 06
25.0	8.735E 01	7.547E 06
30.0	8.224E 01	7.106E 06
50.0	6.548E 01	5.658E 06
60.0	5.892E 01	5.091E 06
70.0	5.310E 01	4.588E 06
100.	3.914E 01	3.382E 06

* EXPOSURE INDEX: ENERGY >5.00MEV *

INTENSITY RANGES #/CM**2/SEC	EXPOSURE DURATION (HOURS)	TOTAL # OF ACCUMULATED PARTICLES
ZERO FLUX	19.350	0.0
1.E0-1.E1	0.850	1.173E 04
1.E1-1.E2	0.917	1.242E 04
1.E2-1.E3	1.233	1.843E 04
1.E3-1.E4	1.650	1.726E 04
1.E4-1.E5	0.0	0.0
1.E5-1.E6	0.0	0.0
1.E6-1.E7	0.0	0.0
1.E7-OVER	0.0	0.0
TOTAL	24.000	1.924E 07

Table 26

 ** ORBITAL FLUX STUDY WITH COMPOSITE PARTICLE ENVIRONMENTS: VETTES APS, AP6, AP7; AF4, AES, FOR SOLAR MAXIMUM *** UNIFLX OF 1973!
 ** ELECTRON FLUXES EXPONENTIALLY DECAYED TO 1970. 0 WITH LIFETIMES: F.G.STASSINGPOULOS&P.VERZARIU ** CUTOFF TIMES: *
 ** MAGNETIC COORDINATES B AND L COMPUTED BY INVARA OF 1972 WITH ALLMAG, MODEL 4: CAINE&SWEENEY 120-TERM POGO 8/69 * TIME= 1974.0 *
 ** VEHICLE : SATS ** INCLINATION= 30DEG ** PERIGEE= 600KM ** APOGEE= 500KM ** B/L ORBIT TAPE: TD7564 ** PERIOD= 1.611 *

 ***** ELECTRONICS *****

***** SPECTRUM IN PERCENT DELTA ENERGY *****

ENERGY RANGES (MEV)	AVERAGED TOTAL FLUX #/CM**2/SEC	AVERAGED TOTAL FLUX #/CM**2/DAY	SPECTRUM PER CENT
.0 - .500	2.610E 05	2.255E 10	96.219
.500-1.00	8.754E 03	7.563E 08	3.227
1.00-1.50	7.503E 02	6.483E 07	0.277
1.50-2.00	3.581E 02	3.094E 07	0.132
2.00-2.50	2.309E 02	1.995E 07	0.085
2.50-3.00	1.106E 02	9.557E 06	0.041
3.00-4.00	5.256E 01	4.541E 06	0.019
4.00-5.00	5.444E-01	4.703E 04	0.000
5.00-OVER	0.0	0.0	0.0
TOTAL	2.713E 05	2.344E 10	100.000

*** COMPOSITE ORBIT SPECTRUM ***

ENERGY LEVELS >(MEV)	AVERAGED INTEG.FLUX #/CM**2/SEC	AVERAGED INTEG.FLUX #/CM**2/DAY
.0	2.713E 05	2.344E 10
.250	4.242E 04	3.665E 09
.500	1.026E 04	8.862E 08
.750	3.003E 03	2.595E 08
1.00	1.503E 03	1.299E 08
1.25	1.077E 03	9.306E 07
1.50	7.527E 02	6.504E 07
1.75	5.719E 02	4.941E 07
2.00	3.946E 02	3.410E 07
2.50	1.637E 02	1.415E 07
3.00	5.310E 01	4.588E 06
3.50	5.577E 00	4.918E 05
4.00	5.444E-01	4.703E 04
4.50	0.0	0.0
5.00	0.0	0.0

* EXPOSURE INDEX: ENERGY >.500MEV *

INTENSITY RANGES #/CM**2/SEC	EXPOSURE DURATION (HOURS)	TOTAL # OF ACCUMULATE PARTICLES
ZERO FLUX	20.167	0.0
1.E0-1.E1	0.350	5.689E 02
1.E1-1.E2	0.483	6.518E 04
1.E2-1.E3	0.583	9.588E 05
1.E3-1.E4	0.700	1.096E 07
1.E4-1.E5	1.017	1.362E 08
1.E5-1.E6	0.700	7.380E 08
1.E6-1.E7	0.0	0.0
1.E7-OVER	0.0	0.0
TOTAL	24.000	8.862E 08

Table 87

 ** ORBITAL FLUX STUDY WITH COMPOSITE PARTICLE ENVIRONMENTS: VETTES AP5, AP6, AP7; AE4, AE5, FOR SOLAR MAXIMUM **** UNIFLX OF 1973 **
 ** ELECTRON FLUXES EXPONENTIALLY DECAYED TO 1970--8 WITH LIFETIMES: E.G. STASSINGPOULOSE P. VERZARIU ** CUTOFF TIMES: **
 ** MAGNETIC COORDINATES B AND L COMPUTED BY INVARA OF 1972 WITH ALLMAG, MODEL 4: CAINESWEEENEY 120-TERM PGD 8/69 * TIME= 1974.0 **
 ** VEHICLE : SATS ** INCLINATION= 60DEG ** PERIGEE= 600KM ** APOGEE= 600KM ** B/L ORBIT TAPE: TD7564 ** PERIOD= 1.611 **

 ***** LOW ENERGY PROTONS *****

***** SPECTRUM IN PERCENT DELTA ENERGY *****

ENERGY RANGES (MEV)	AVERAGED TOTAL FLUX #/CM**2/SEC	AVERAGED TOTAL FLUX #/CM**2/DAY	SPECTRUM PER CENT
.100-.500	1.154E 04	9.573E 06	82.279
.500-.900	1.206E 03	1.042E 06	8.595
.900-1.10	2.239E 02	1.935E 07	1.596
1.10-1.50	2.616E 02	2.260E 07	1.865
1.50-2.00	1.766E 02	1.526E 07	1.259
2.00-2.50	1.113E 02	9.613E 06	0.793
2.50-3.00	8.100E 01	6.958E 06	0.577
3.00-3.50	6.336E 01	5.475E 06	0.452
3.50-OVER	3.624E 02	3.131E 07	2.583
TOTAL	1.403E 04	1.212E 09	100.000

*** COMPOSITE ORBIT SPECTRUM ***

ENERGY LEVELS (MEV)	AVERAGED INTEG.FLUX #/CM**2/SEC	AVERAGED INTEG.FLUX #/CM**2/DAY
.100	1.403E 04	1.212E 09
.300	4.341E 03	3.750E 08
.500	2.486E 03	2.148E 08
.700	1.684E 03	1.455E 08
.900	1.280E 03	1.106E 08
1.10	1.056E 03	9.126E 07
1.30	9.041E 02	7.812E 07
1.50	7.947E 02	6.866E 07
1.75	6.941E 02	5.997E 07
2.00	6.181E 02	5.340E 07
2.25	5.573E 02	4.815E 07
2.50	5.068E 02	4.379E 07
2.75	4.636E 02	4.005E 07
3.00	4.258E 02	3.679E 07
3.50	3.624E 02	3.131E 07

* EXPOSURE INDEX: ENERGY > 100 MEV *

INTENSITY RANGES #/CM**2/SEC	EXPOSURE DURATION (HOURS)	TOTAL # OF ACCUMULATED PARTICLES
ZERO FLUX	18.017	0.0
1.E0-1.E1	0.550	7.215E 03
1.E1-1.E2	0.650	1.103E 05
1.E2-1.E3	0.667	1.075E 06
1.E3-1.E4	1.250	2.134E 07
1.E4-1.E5	1.717	2.036E 08
1.E5-1.E6	1.150	9.861E 08
1.E6-1.E7	0.0	0.0
1.E7-OVER	0.0	0.0
TOTAL	24.000	1.212E 09

Table 68

 ** ORBITAL FLUX STUDY WITH COMPOSITE PARTICLE ENVIRONMENTS: VETTES AP5, AP6, AP7; AE4, AE5, FOR SOLAR MAXIMUM *** UNIFLX OF 1973 **
 ** ELECTRON FLUXES EXPONENTIALLY DECAYED TO 1970. 0 WITH LIFETIMES: F.G.STASSINOPOULOS P.VERZARIU ** CUTOFF TIMES: **
 ** MAGNETIC COORDINATES B AND L COMPUTED BY INVARA OF 1972 WITH ALLMAG. MODEL 4: CAINE&SWEENEY 120-TERM POGO 2/69 * TIME= 1974.0 **
 ** VEHICLE : SATS ** INCLINATION= 60DEG ** PERIGEE= 600KM ** APOGEE= 600KM ** B/L ORBIT TAPE: 1D7564 ** PERIOD= 1.611 **

 ***** HIGH ENERGY PROTONS *****

***** SPECTRUM IN PERCENT DELTA ENERGY *****

ENERGY RANGES (MEV)	AVERAGED TOTAL FLUX #/CM**2/SEC	AVERAGED TOTAL FLUX #/CM**2/DAY	SPECTRUM PER CENT
3.00-5.00	1.973E 02	1.619E 07	43.995
5.00-10.0	1.376E 02	1.189E 07	32.309
10.0-15.0	3.469E 01	2.998E 06	8.148
15.0-20.0	9.608E 00	9.301E 05	2.256
20.0-25.0	4.938E 00	4.266E 05	1.160
25.0-30.0	4.164E 00	3.598E 05	0.978
30.0-50.0	1.203E 01	1.039E 06	2.825
50.0-100.	1.519E 01	1.312E 06	3.567
100.-OVER	2.028E 01	1.752E 06	4.762
TOTAL	4.258E 02	3.679E 07	100.000

*** COMPOSITE ORBIT SPECTRUM ***

ENERGY LEVELS >(MEV)	AVERAGED INTEG.FLUX #/CM**2/SEC	AVERAGED INTEG.FLUX #/CM**2/DAY
3.00	4.258E 02	3.679E 07
4.00	3.110E 02	2.687E 07
5.00	2.385E 02	2.060E 07
7.00	1.500E 02	1.296E 07
10.0	1.009E 02	8.717E 06
12.0	8.447E 01	7.298E 06
15.0	6.620E 01	5.720E 06
18.0	5.886E 01	5.085E 06
20.0	5.659E 01	4.890E 06
25.0	5.166E 01	4.463E 06
30.0	4.749E 01	4.103E 06
50.0	3.546E 01	3.064E 06
60.0	3.158E 01	2.728E 06
70.0	2.819E 01	2.436E 06
100.	2.028E 01	1.752E 06

* EXPOSURE INDEX: ENERGY >5.00MEV *

INTENSITY RANGES #/CM**2/SEC	EXPOSURE DURATION (HOURS)	TOTAL # OF ACCUMULATED PARTICLES
ZERO FLUX	20.067	0.0
1.E0-1.E1	0.617	7.440E 03
1.E1-1.E2	0.650	9.974E 04
1.E2-1.E3	1.167	1.901E 06
1.E3-1.E4	1.500	1.860E 07
1.E4-1.E5	0.0	0.0
1.E5-1.E6	0.0	0.0
1.E6-1.E7	0.0	0.0
1.E7-OVER	0.0	0.0
TOTAL	24.000	2.060E 07

 ** ORBITAL FLUX STUDY WITH COMPOSITE PARTICLE ENVIRONMENTS: VETTES AP5, AP6, AP7; AE4, AE5. FOR SOLAR MAXIMUM *** UNIFLX OF 1973 **
 ** ELECTRON FLUXES EXPONENTIALLY DECAYED TO 1970. 0-WITH LIFETIMES: F.G. STASSING PULSAR VERZARIO ** CUTOFF TIMES: **
 ** MAGNETIC COORDINATES B AND L COMPUTED BY INVARA OF 1972 WITH ALLMAG, MODEL 4: CAINGSWEEENEY 120-TERM POGO 8/69 * TIME= 1974.0 **
 ** VEHICLE : SATS ** INCLINATION= 60DEG ** PERIGEE= 689KM ** APOGEE= 689KM ** B/L ORBIT TYPE= 7079C4 ** PERIOD= 3.061 **

 ***** ELECTRONICS *****

***** SPECTRUM IN PERCENT DELTA ENERGY *****

ENERGY RANGES (MEV)	AVERAGED TOTAL FLUX #/CM**2/SEC	AVERAGED TOTAL FLUX #/CM**2/DAY	SPECTRUM PER CENT
0.0 -0.500	4.991E 05	4.312E 10	95.425
0.500-1.00	1.681E 04	1.452E 09	3.214
1.00-1.50	3.949E 03	3.412E 08	0.755
1.50-2.00	1.712E 03	1.479E 08	0.327
2.00-2.50	8.207E 02	7.691E 07	0.157
2.50-3.00	3.935E 02	3.400E 07	0.075
3.00-4.00	2.336E 02	2.019E 07	0.045
4.00-5.00	6.522E 00	5.635E 05	0.001
5.00-OVER	0.0	0.0	0.0

TOTAL	5.230E 05	4.519E 10	100.000
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*** COMPOSITE ORBIT SPECTRUM ***

ENERGY LEVELS (MEV)	AVERAGED INTEG. FLUX #/CM**2/SEC	AVERAGED INTEG. FLUX #/CM**2/DAY
0.0	5.230E 05	4.519E 10
0.250	7.466E 04	6.451E 09
0.500	2.392E 04	2.067E 09
0.750	1.223E 04	1.057E 09
1.00	7.116E 03	6.148E 08
1.25	4.742E 03	4.097E 08
1.50	3.167E 03	2.736E 08
1.75	2.159E 03	1.865E 08
2.00	1.454E 03	1.257E 08
2.50	6.336E 02	5.475E 07
3.00	2.402E 02	2.075E 07
3.50	5.928E 01	5.122E 06
4.00	6.522E 00	5.635E 05
4.50	1.299E 01	1.122E 04
5.00	0.0	0.0

* EXPOSURE INDEX: ENERGY > 500 MEV *

INTENSITY RANGES #/CM**2/SEC	EXPOSURE DURATION (HOURS)	TOTAL # OF ACCUMULATED PARTICLES
ZERO FLUX	15.267	0.0
1.E0-1.E1	0.300	4.799E 03
1.E1-1.E2	0.383	7.081E 04
1.E2-1.E3	0.817	1.279E 05
1.E3-1.E4	1.733	2.444E 07
1.E4-1.E5	3.483	6.160E 08
1.E5-1.E6	2.017	1.489E 09
1.E6-1.E7	0.0	0.0
1.E7-OVER	0.0	0.0

TOTAL	24.000	2.067E 09
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Table 90

 ** ORBITAL FLUX STUDY WITH COMPOSITE PARTICLE ENVIRONMENTS: VETTES AP5, AP6, AP7; AE4, AE5. FOR SOLAR MAXIMUM **** UNIFLX OF 1973 **
 ** ELECTRON FLUXES EXPONENTIALLY DECAYED TO 1970. 0 WITH LIFETIMES: F.G. STASSINOPoulos & P. VERZARIU ** CUTOFF TIMES: **
 ** MAGNETIC COORDINATES R AND L COMPUTED BY INVARA OF 1972 WITH ALLMAG. MODEL 4: CAINESWENEY 120-TERM POGO 8/69 * TIME= 1974.0 **
 ** VEHICLE : SATS ** INCLINATION= 90DEG ** PERIGEE= 600KM ** APOGEE= 600KM ** B/L ORBIT TAPE: TD7964 ** PERIOD= 1.611 **

 ***** LOW-ENERGY PROTONS *****

***** SPECTRUM IN PERCENT DELTA ENERGY *****

ENERGY RANGES (MEV)	AVERAGE TOTAL FLUX #/CM**2/SEC	AVERAGED TOTAL FLUX #/CM**2/DAY	SPECTRUM PER CENT
.100-.500	1.292E 04	1.116E 09	88.532
.500-.900	7.953E 02	6.871E 07	5.450
.900-1.10	1.437E 02	1.241E 07	0.985
1.10-1.50	1.697E 02	1.466E 07	1.163
1.50-2.00	1.172E 02	1.012E 07	0.803
2.00-2.50	7.550E 01	6.523E 06	0.517
2.50-3.00	5.604E 01	4.842E 06	0.384
3.00-3.50	4.459E 01	3.853E 06	0.306
3.50-OVER	2.714E 02	2.345E 07	1.860
TOTAL	1.459E 04	1.261E 09	100.000

*** COMPOSITE ORBIT SPECTRUM ***

ENERGY LEVELS >(MEV)	AVERAGED INTEG.FLUX #/CM**2/SEC	AVERAGED INTEG.FLUX #/CM**2/DAY
.100	1.459E 04	1.261E 09
.300	3.227E 03	2.788E 08
.500	1.673E 03	1.446E 08
.700	1.137E 03	9.823E 07
.900	8.780E 02	7.586E 07
1.10	7.344E 02	6.345E 07
1.30	6.361E 02	5.496E 07
1.50	5.647E 02	4.879E 07
1.75	4.983E 02	4.306E 07
2.00	4.475E 02	3.867E 07
2.25	4.065E 02	3.512E 07
2.50	3.720E 02	3.214E 07
2.75	3.422E 02	2.957E 07
3.00	3.160E 02	2.730E 07
3.50	2.714E 02	2.345E 07

* EXPOSURE INDEX: ENERGY >.100MEV *

INTENSITY RANGES #/CM**2/SEC	EXPOSURE DURATION (HOURS)	TOTAL # OF ACCUMULATED PARTICLES
ZERO FLUX	18.650	0.0
1.E0-1.E1	0.300	3.691E 03
1.E1-1.E2	0.700	1.002E 05
1.E2-1.E3	0.667	1.106E 06
1.E3-1.E4	1.117	1.957E 07
1.E4-1.E5	1.450	1.809E 08
1.E5-1.E6	1.117	1.059E 09
1.E6-1.E7	0.0	0.0
1.E7-OVER	0.0	0.0
TOTAL	24.000	1.261E 09

Table 91

 ** ORBITAL FLUX STUDY WITH COMPOSITE PARTICLE ENVIRONMENTS: VETTES APS, AP6, AP7; AE4, AES, FOR SOLAR MAXIMUM **** UNIFLX OF 1973 **
 ** ELECTRON FLUXES EXPONENTIALLY DECAYED TO 1970, 0 WITH LIFETIMES: F.G.STASSINOPOLOS&P.VERZARIU ** CUTOFF TIMES: **
 ** MAGNETIC COORDINATES B AND L COMPUTED BY INVARA OF 1972 WITH ALLMAG, MODEL 4: CAINESWEEFNEY 120-TERM POGO E/EG 4 TIME= 1974.0 **
 ** VEHICLE : SATS ** INCLINATION= 90DEG ** PERIGEE= 600KM ** APOGEE= 600KM ** R/L ORBIT TAPE: TD7564 ** PERIOD= 1.611 **

***** HIGH ENERGY PROTONS *****

***** SPECTRUM IN PERCENT DELTA ENERGY *****

ENERGY RANGES (MEV)	AVERAGED TOTAL FLUX #/CM**2/SEC	AVERAGED TOTAL FLUX #/CM**2/DAY	SPECTRUM PER CENT
3.00-5.00	1.331E 02	1.150E 07	42.110
5.00-10.0	1.017E 02	8.789E 06	32.191
10.0-15.0	2.714E 01	2.345E 06	8.588
15.0-20.0	7.562E 00	6.533E 05	2.393
20.0-25.0	3.905E 00	3.374E 05	1.236
25.0-30.0	3.330E 00	2.877E 05	1.054
30.0-50.0	9.778E 00	8.448E 05	3.094
50.0-100.	1.263E 01	1.091E 06	3.996
100.-OVER	1.687E 01	1.457E 06	5.338
TOTAL	3.160E 02	2.730E 07	100.000

*** COMPOSITE ORBIT SPECTRUM ***

ENERGY LEVELS >(MEV)	AVERAGED INTEG.FLUX #/CM**2/SEC	AVERAGED INTEG.FLUX #/CM**2/DAY
3.00	3.160E 02	2.730E 07
4.00	2.347E 02	2.028E 07
5.00	1.829E 02	1.580E 07
7.00	1.183E 02	1.022E 07
10.0	8.120E 01	7.016E 06
12.0	6.845E 01	5.914E 06
15.0	5.407E 01	4.672E 06
18.0	4.828E 01	4.171E 06
20.0	4.651E 01	4.018E 06
25.0	4.260E 01	3.681E 06
30.0	3.927E 01	3.393E 06
50.0	2.949E 01	2.548E 06
60.0	2.626E 01	2.269E 06
70.0	2.344E 01	2.026E 06
100.	1.687E 01	1.457E 06

* EXPOSURE INDEX:ENERGY >5.00MEV *

INTENSITY RANGES #/CM**2/SEC	EXPOSURE DURATION (HOURS)	TOTAL # OF ACCUMULATED PARTICLES
ZERO FLUX	21.083	0.0
1.E0-1.E1	0.350	5.067E 03
1.E1-1.E2	0.683	1.077E 05
1.E2-1.E3	0.683	1.070E 06
1.E3-1.E4	1.200	1.462E 07
1.E4-1.E5	0.0	0.0
1.E5-1.E6	0.0	0.0
1.E6-1.E7	0.0	0.0
1.E7-OVER	0.0	0.0
TOTAL	24.000	1.580E 07

Table 92

 ** CRBITAL FLUX STUDY WITH COMPOSITE PARTICLE ENVIRONMENTS: VETTES APS, AP6, AP7; AE4, AE5, FOR SOLAR MAXIMUM *** UNIFLX OF 1973 **
 ** ELECTRON FLUXES EXPONENTIALLY DECAYED TO 1970. 0 WITH LIFETIMES: E.G. STAESINPOULOS&P. VERZARIU ** CUTOFF TIMES: **
 ** MAGNETIC COORDINATES -- AND I COMPUTED BY INVARA OF 1972 WITH ALL MAG. MODEL 4: CAINE&SWFFNEY 120-TERM POGO E/E9 * TIME= 1974.0 **
 ** VEHICLE : SATS ** INCLINATION= 90 DEG ** PERIGEE= 600KM ** APOGEE= 500KM ** R/L ORBIT TIME: TD7964 ** PEP100= 1.611 **

 ***** ELECTRONS *****

***** SPECTRUM IN PERCENT DELTA ENERGY *****

ENERGY RANGES (MEV)	AVERAGED TOTAL FLUX #/CM**2/SEC	AVERAGED TOTAL FLUX #/CM**2/DAY	SPECTRUM PERCENT
.0 - .500	4.243E 05	3.666E 10	95.017
.500-1.00	1.559E 04	1.347E 09	3.492
1.00-1.50	3.789E 03	3.273E 08	0.849
1.50-2.00	1.535E 03	1.370E 08	0.355
2.00-2.50	7.367E 02	6.361E 07	0.165
2.50-3.00	3.403E 02	2.941E 07	0.076
3.00-4.00	2.013E 02	1.739E 07	0.045
4.00-5.00	5.588E 01	4.829E 05	0.001
5.00-CVFF4	0.0	0.0	0.0
TOTAL	4.465E 05	3.858E 10	100.000

*** COMPOSITE CRBIT SPECTRUM ***

ENERGY LEVELS >(MEV)	AVERAGED INTEG. FLUX #/CM**2/SEC	AVERAGED INTEG. FLUX #/CM**2/DAY
.0	4.465E 05	3.858E 10
.250	6.636E 04	5.734E 09
.500	2.225E 04	1.922E 09
.750	1.151E 04	9.941E 08
1.00	6.658E 03	5.752E 08
1.25	4.361E 03	3.768E 08
1.50	2.869E 03	2.479E 08
1.75	1.929E 03	1.667E 08
2.00	1.283E 03	1.109E 08
2.50	5.472E 02	4.728E 07
3.00	2.069E 02	1.787E 07
3.50	5.126E 01	4.429E 06
4.00	5.588E 00	4.828E 05
4.50	1.102E-01	9.517E 03
5.00	0.0	0.0

* EXPOSURE INDEX: ENERGY >.500MEV *

INTENSITY RANGES #/CM**2/SEC	EXPOSURE DURATION (HOURS)	TOTAL # OF ACCUMULATED PARTICLES
ZERO FLUX	16.250	0.0
1.E0-1.E1	0.267	5.432E 03
1.E1-1.E2	0.433	7.045E 04
1.E2-1.E3	0.833	1.023E 06
1.E3-1.E4	1.083	1.605E 07
1.E4-1.E5	3.200	5.731E 08
1.E5-1.E6	1.933	1.332E 09
1.E6-1.E7	0.0	0.0
1.E7-OVER	0.0	0.0
TOTAL	24.000	1.922E 09

Table 93

 ** CRITICAL FLUX STUDY WITH COMPOSITE PARTICLE ENVIRONMENTS: NETTES APS, AP6, AP7; AC4, AC5, FOR SOLAR MAXIMUM *** UNIFLX OF 1973 **
 ** ELECTRON FLUXES EXPONENTIALLY DECAYED TO 1970. 0 WITH LIFETIMES: E.G. STASSINPOULOS & P. VERZARIU ** CUTOFF TIMES: **
 ** MAGNETIC COORDINATES B AND L COMPILED BY INVAPA OF 1972 WITH ALLMAG. MODEL 4: CAINESWEELEY 120-TERM POGO 8/69 * TIME= 1974.0 **
 ** VEHICLE : SATE ** INCLINATION= 0DEG ** PERIGEE= 800KM ** APCGEE= 800KM ** R/L GABIT TAPE: TD7036 ** PERIOD= 1.681 **

***** SPECTRUM IN PERCENT DELTA ENERGY *****

ENERGY RANGES (MEV)	AVERAGED TOTAL FLUX #/CM**2/SEC	AVERAGED TOTAL FLUX #/CM**2/DAY	SPECTRUM PER CENT
.100-.500	9.420E 01	7.275E 06	15.283
.500-1.00	7.080E 01	6.17E 06	12.851
.600-1.10	3.035E 01	2.523E 06	5.509
1.10-1.50	5.244E 01	4.530E 06	9.513
1.50-2.00	5.311E 01	4.569E 06	9.641
2.00-2.50	4.252E 01	3.674E 06	7.715
2.50-3.00	3.442E 01	2.974E 06	6.248
3.00-3.50	2.612E 01	2.230E 06	5.104
3.50-OVER	1.550E 02	1.339E 07	28.124
TOTAL	5.509E 02	4.760E 07	100.000

*** COMPOSITE ORBIT SPECTRUM ***

ENERGY LEVELS >(MEV)	AVERAGED INTEG.FLUX #/CM**2/SEC	AVERAGED INTEG.FLUX #/CM**2/DAY
.100	5.509E 02	4.760E 07
.200	5.071E 02	4.381E 07
.500	4.667E 02	4.032E 07
.700	4.297E 02	3.712E 07
.900	3.959E 02	3.421E 07
1.10	3.656E 02	3.159E 07
1.30	3.381E 02	2.921E 07
1.50	3.131E 02	2.706E 07
1.75	2.851E 02	2.463E 07
2.00	2.600E 02	2.247E 07
2.25	2.376E 02	2.053E 07
2.50	2.175E 02	1.879E 07
2.75	1.994E 02	1.723E 07
3.00	1.831E 02	1.582E 07
3.50	1.550E 02	1.339E 07

* EXPOSURE INDEX: ENERGY >.100MEV *

INTENSITY RANGES #/CM**2/SEC	EXPOSURE DURATION (HOURS)	TOTAL # OF ACCUMULATED PARTICLES
ZERO FLUX	9.633	0.0
1.E0-1.E1	3.400	5.018E 04
1.E1-1.E2	3.200	4.267E 05
1.E2-1.E3	4.100	8.030E 06
1.E3-1.E4	3.667	3.909E 07
1.E4-1.E5	0.0	0.0
1.E5-1.E6	0.0	0.0
1.E6-1.E7	0.0	0.0
1.E7-OVER	0.0	0.0
TOTAL	24.000	4.760E 07

Table 94

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** CAPITAL FLUX STUDY WITH COMPOSITE PARTICLE ENVIRONMENTS: VEHICLE AGE, AGE, APT: A1, A2, A3, A4, A5, A6, A7, A8, A9, A10, A11, A12, A13, A14, A15, A16, A17, A18, A19, A20, A21, A22, A23, A24, A25, A26, A27, A28, A29, A30, A31, A32, A33, A34, A35, A36, A37, A38, A39, A40, A41, A42, A43, A44, A45, A46, A47, A48, A49, A50, A51, A52, A53, A54, A55, A56, A57, A58, A59, A60, A61, A62, A63, A64, A65, A66, A67, A68, A69, A70, A71, A72, A73, A74, A75, A76, A77, A78, A79, A80, A81, A82, A83, A84, A85, A86, A87, A88, A89, A90, A91, A92, A93, A94, A95, A96, A97, A98, A99, A100, A101, A102, A103, A104, A105, A106, A107, A108, A109, A110, A111, A112, A113, A114, A115, A116, A117, A118, A119, A120, A121, A122, A123, A124, A125, A126, A127, A128, A129, A130, A131, A132, A133, A134, A135, A136, A137, A138, A139, A140, A141, A142, A143, A144, A145, A146, A147, A148, A149, A150, A151, A152, A153, A154, A155, A156, A157, A158, A159, A160, A161, A162, A163, A164, A165, A166, A167, A168, A169, A170, A171, A172, A173, A174, A175, A176, A177, A178, A179, A180, A181, A182, A183, A184, A185, A186, A187, A188, A189, A190, A191, A192, A193, A194, A195, A196, A197, A198, A199, A200, A201, A202, A203, A204, A205, A206, A207, A208, A209, A210, A211, A212, A213, A214, A215, A216, A217, A218, A219, A220, A221, A222, A223, A224, A225, A226, A227, A228, A229, A230, A231, A232, A233, A234, A235, A236, A237, A238, A239, A240, A241, A242, A243, A244, A245, A246, A247, A248, A249, A250, A251, A252, A253, A254, A255, A256, A257, A258, A259, A260, A261, A262, A263, A264, A265, A266, A267, A268, A269, A270, A271, A272, A273, A274, A275, A276, A277, A278, A279, A280, A281, A282, A283, A284, A285, A286, A287, A288, A289, A290, A291, A292, A293, A294, A295, A296, A297, A298, A299, A300, A301, A302, A303, A304, A305, A306, A307, A308, A309, A310, A311, A312, A313, A314, A315, A316, A317, A318, A319, A320, A321, A322, A323, A324, A325, A326, A327, A328, A329, A330, A331, A332, A333, A334, A335, A336, A337, A338, A339, A340, A341, A342, A343, A344, A345, A346, A347, A348, A349, A350, A351, A352, A353, A354, A355, A356, A357, A358, A359, A360, A361, A362, A363, A364, A365, A366, A367, A368, A369, A370, A371, A372, A373, A374, A375, A376, A377, A378, A379, A380, A381, A382, A383, A384, A385, A386, A387, A388, A389, A390, A391, A392, A393, A394, A395, A396, A397, A398, A399, A400, A401, A402, A403, A404, A405, A406, A407, A408, A409, A410, A411, A412, A413, A414, A415, A416, A417, A418, A419, A420, A421, A422, A423, A424, A425, A426, A427, A428, A429, A430, A431, A432, A433, A434, A435, A436, A437, A438, A439, A440, A441, A442, A443, A444, A445, A446, A447, A448, A449, A450, A451, A452, A453, A454, A455, A456, A457, A458, A459, A460, A461, A462, A463, A464, A465, A466, A467, A468, A469, A470, A471, A472, A473, A474, A475, A476, A477, A478, A479, A480, A481, A482, A483, A484, A485, A486, A487, A488, A489, A490, A491, A492, A493, A494, A495, A496, A497, A498, A499, A500, A501, A502, A503, A504, A505, A506, A507, A508, A509, A510, A511, A512, A513, A514, A515, A516, A517, A518, A519, A520, A521, A522, A523, A524, A525, A526, A527, A528, A529, A530, A531, A532, A533, A534, A535, A536, A537, A538, A539, A540, A541, A542, A543, A544, A545, A546, A547, A548, A549, A550, A551, A552, A553, A554, A555, A556, A557, A558, A559, A560, A561, A562, A563, A564, A565, A566, A567, A568, A569, A570, A571, A572, A573, A574, A575, A576, A577, A578, A579, A580, A581, A582, A583, A584, A585, A586, A587, A588, A589, A590, A591, A592, A593, A594, A595, A596, A597, A598, A599, A600, A601, A602, A603, A604, A605, A606, A607, A608, A609, A610, A611, A612, A613, A614, A615, A616, A617, A618, A619, A620, A621, A622, A623, A624, A625, A626, A627, A628, A629, A630, A631, A632, A633, A634, A635, A636, A637, A638, A639, A640, A641, A642, A643, A644, A645, A646, A647, A648, A649, A650, A651, A652, A653, A654, A655, A656, A657, A658, A659, A660, A661, A662, A663, A664, A665, A666, A667, A668, A669, A670, A671, A672, A673, A674, A675, A676, A677, A678, A679, A680, A681, A682, A683, A684, A685, A686, A687, A688, A689, A690, A691, A692, A693, A694, A695, A696, A697, A698, A699, A700, A701, A702, A703, A704, A705, A706, A707, A708, A709, A710, A711, A712, A713, A714, A715, A716, A717, A718, A719, A720, A721, A722, A723, A724, A725, A726, A727, A728, A729, A730, A731, A732, A733, A734, A735, A736, A737, A738, A739, A740, A741, A742, A743, A744, A745, A746, A747, A748, A749, A750, A751, A752, A753, A754, A755, A756, A757, A758, A759, A760, A761, A762, A763, A764, A765, A766, A767, A768, A769, A770, A771, A772, A773, A774, A775, A776, A777, A778, A779, A780, A781, A782, A783, A784, A785, A786, A787, A788, A789, A790, A791, A792, A793, A794, A795, A796, A797, A798, A799, A800, A801, A802, A803, A804, A805, A806, A807, A808, A809, A810, A811, A812, A813, A814, A815, A816, A817, A818, A819, A820, A821, A822, A823, A824, A825, A826, A827, A828, A829, A830, A831, A832, A833, A834, A835,
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***** SPECTRUM IN DECEMBER DELTA ENERGY *****

*** CONNECT IT WITH "OBJECTLY" ***

* EXPOSURE INDEX:ENE 4GY >5.00M-F *

ENERGY RANGES (MEV)	AVERAGED TOTAL FLUX %/CM**2/SEC	AVERAGED TOTAL FLUX %/CM**2/BAH	SPECTRUM PER CENT
3.00-5.00	5.355E 01	5.500E 06	34.754
5.00-10.0	3.115E 01	2.554E 06	17.025
10.0-15.0	1.523E 01	1.314E 06	8.317
15.0-20.0	9.527E 00	1.400E 06	3.471
20.0-25.0	2.201E 00	2.501E 05	1.202
25.0-30.0	3.124E 00	1.535E 05	1.160
30.0-35.0	7.759E 00	6.719E 05	4.234
35.0-40.0	3.537E 01	3.670E 06	10.505
40.0-45.0	3.707E 01	3.203E 06	20.246

ENERGY LEVELS >(NEV)	AVERAGE INTEN.FLUX #/CM**2/SEC	AVERAGE INTEN.FLUX #/CM**2/DAY
7.00	1.931E 02	1.588E 07
1.00	1.716E 02	1.417E 07
9.00	2.154E 02	1.032E 07
7.00	1.037E 02	8.875E 06
10.0	9.826E 01	7.002E 06
12.0	3.181E 01	7.045E 06
10.0	7.500E 01	6.310E 06
14.0	5.047E 01	5.797E 06
20.0	6.481E 01	5.919E 06
25.0	7.630E 01	5.726E 06
30.0	6.416E 01	5.546E 06
50.0	7.639E 01	6.973E 06
60.0	5.170E 01	4.466E 06
70.0	7.744E 01	4.109E 06
100.	7.707E 01	3.203E 06

INTENSITY RANGES	EXPOSURE DURATION (HOURS)	TOTAL # OF ACCUMULATED PARTICLES
ZERO FLUX	5.917	0.0
1.E0-1.E1	0.617	1.075E 05
1.E1-1.E2	2.117	3.071E 05
1.E2-1.E3	4.717	6.443E 06
1.E3-1.E4	0.433	3.023E 06
1.E4-1.E5	0.0	0.0
1.E5-1.E6	0.0	0.0
1.E6-1.E7	0.0	0.0
1.E7-OVER	0.0	0.0

TOTAL	1.5317 02	1.5317 57	100.000
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TOTAL	24,000	1,072.97
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Table 95

 ** ORBITAL FLUX STUDY WITH COMPOSITE PARTICLE ENVIRONMENTS: VETTES AFS, AFB, AP7; AE4, AE5, FOR SOLAR MAXIMUM *** UNIFLX OF 1973 **
 ** ELECTRON FLUXES EXPONENTIALLY DECAYED TO 1970.0 WITH LIFETIMES: E.G. STASSINOPOLUS & VERZARIU ** CUTOFF TIMES: **
 ** MAGNETIC COORDINATES B AND L COMPUTED BY INVAFR OF 1972 WITH ALL MAG. MODEL 4: CAIN & GREENEY 120-TERM POGC 8/69 * TIME= 1974.0 **
 ** VEHICLE : SATS ** INCLINATION= 00 DEG ** PERIGEE= 800KM ** APCGEE= 800KM ** B/L ORBIT TAPE: TD7036 ** PERIOD= 1.6H **

 ELECTRONS *****

***** SPECTRUM IN PERCENT DELTA ENERGY *****

***** COMPOSITE ORBIT SPECTRUM *****

* EXPOSURE INDEX: ENERGY > 5.00 MEV *

ENERGY RANGES (MEV)	AVERAGED TOTAL FLUX #/CM**2/SEC	AVERAGED TOTAL FLUX #/CM**2/DAY	SPECTRUM PER CENT	ENERGY LEVELS (MEV)	AVERAGED INTEG. FLUX #/CM**2/SEC	AVERAGED INTEG. FLUX #/CM**2/DAY	INTENSITY RANGES #/CM**2/SEC	EXPOSURE DURATION (HOURS)	TOTAL # OF ACCUMULATED PARTICLES
0-500	5.766E-03	4.962E-02	59.657	0	6.431E-03	5.557E-02	ZERO FLUX	10.700	0.0
500-1.00	3.501E-02	3.371E-07	6.066	0.250	2.138E-03	1.847E-02	1.E0-1.E1	6.217	9.734E-04
1.00-1.50	8.801E-01	7.604E-06	1.369	0.500	6.652E-02	5.747E-07	1.E1-1.E2	1.313	1.863E-05
1.50-2.00	8.707E-01	7.523E-06	1.354	0.750	3.385E-02	2.924E-07	1.E2-1.E3	1.600	2.357E-06
2.00-2.50	6.221E-01	5.412E-06	0.975	1.000	2.751E-02	2.377E-07	1.E3-1.E4	4.083	5.225E-07
2.50-3.00	2.439E-01	2.107E-06	0.379	1.25	2.289E-02	1.978E-07	1.E4-1.E5	0.067	2.585E-06
3.00-4.00	1.272E-01	1.059E-06	0.198	1.50	1.871E-02	1.616E-07	1.E5-1.E6	0.0	0.0
4.00-5.00	1.559E-01	1.382E-04	0.002	1.75	1.445E-02	1.248E-07	1.E6-1.E7	0.0	0.0
5.00-EVER	0.0	0.0	0.0	2.00	9.952E-01	8.638E-06	1.E7-OVER	0.0	0.0
				2.50	3.727E-01	3.220E-06			
TOTAL	6.431E-03	5.557E-02	100.000	3.00	1.288E-01	1.113E-06	TOTAL	24.000	5.748E-07
				3.50	1.698E-00	1.467E-05			
				4.00	1.559E-01	1.382E-04			
				4.50	0.0	0.0			
				5.00	0.0	0.0			

Table 9c

 ** CREITAL FLUX STUDY WITH COMPOSITE PARTICLE ENVIRONMENTS: VETTES AFS, AP6, AP7; AE4, AES, FOR SOLAR MAXIMUM *** UNIFLX OF 1973 **
 ** ELECTRON FLUXES EXPONENTIALLY DECAYED TO 1970. 0. WITH LIFETIMES: E.G. STASSINOPOULOS & P. VERZARIU ** CUTOFF TIMES: **
 ** MAGNETIC COORDINATES B AND L COMPUTED BY INVARA OF 1972 WITH ALLWAG, MCDL 4; CAIRNSWEELEY 120-TERM PQGO 8/69 * TIME= 1974.0 **
 ** VEHICLE : SATS ** INCLINATION= 30DEG ** PERIGEE= 800KM ** APCGEE= 800KM ** R/L OPHIT TAPE: TD7C36 ** PERIOD= 1.681 **

 4***** LCM ENERGY FFCIONS *****

***** SPECTRUM IN PERCENT DELTA ENERGY *****

*** COMPOSITE CREIT SPECTRUM ***

* EXPOSURE INDEX: ENERGY > 100MEV *

ENERGY RANGES (MEV)	AVERAGED TOTAL FLUX #/CM**2/SEC	AVERAGED TOTAL FLUX #/CM**2/DAY	SPECTRUM PER CENT	ENERGY LEVELS >(MEV)	AVERAGED INTEG. FLUX #/CM**2/SEC	AVERAGED INTEG. FLUX #/CM**2/DAY	INTENSITY RANGES #/CM**2/SEC	EXPOSURE DURATION (HOURS)	TOTAL # OF ACCUMULATED PARTICLES
0.100-0.500	4.671E 02	4.036E 07	16.464	0.100	2.637E 03	2.451E 08	ZERO FLUX	14.900	0.0
0.500-0.900	3.329E 02	2.877E 07	11.735	0.300	2.553E 03	2.240E 08	1.E0-1.E1	1.633	2.106E 04
0.900-1.10	8.311E 01	7.181E 06	2.929	0.500	2.370E 03	2.046E 08	1.E1-1.E2	1.367	1.719E 05
1.10-1.50	1.544E 02	1.334E 07	5.443	0.700	2.166E 03	1.872E 08	1.E2-1.E3	1.500	2.314E 06
1.50-2.00	1.733E 02	1.458E 07	6.110	0.900	2.037E 03	1.760E 08	1.E3-1.E4	2.067	2.962E 07
2.00-2.50	1.544E 02	1.334E 07	5.442	1.10	1.954E 03	1.688E 08	1.E4-1.E5	2.533	2.130E 08
2.50-3.00	1.386E 02	1.193E 07	4.865	1.30	1.875E 03	1.620E 08	1.E5-1.E6	0.0	0.0
3.00-3.50	1.237E 02	1.069E 07	4.360	1.50	1.800E 03	1.555E 08	1.E6-1.E7	0.0	0.0
3.50-OVER	1.210E 03	1.046E 08	42.653	1.75	1.710E 03	1.478E 08	1.E7-OVER	0.0	0.0
				2.00	1.626E 03	1.405E 08			
TOTAL	2.637E 03	2.451E 08	100.000	2.25	1.547E 03	1.337E 08	TOTAL	24.000	2.451E 08
				2.50	1.472E 03	1.272E 08			
				2.75	1.401E 03	1.210E 08			
				3.00	1.334E 03	1.152E 08			
				3.50	1.210E 03	1.046E 08			

Table 97

 ** CREDITAL FLUX STUDY WITH COMPOSITE PARTICLE ENVIRONMENTS: VETTES AFS, AF6, AP7; AE4, AES, FOR SOLAR MAXIMUM *** UNIFLX OF 1973 **
 ** ELECTRON FLUXES EXPONENTIALLY DECAYED TO 1970. C. WITH LINES: E.G. STASSINOPOLUSSE, VERZARIU. ** CUTOFF TIMES: **
 ** MAGNETIC COORDINATES B AND L COMPLETED BY INVAF 1972 WITH ALLWAG. MODEL 4: CAINESSWEENEY 120-TERM PDGO 2/69 * TIME= 1974.0 **
 ** VEHICLE: SATS. ** INCLINATION= 300 DEG ** SERIGEE= 800KM ** APCGEE= 800KM ** B/L ORBIT TAPE: TQ7436 ** PERIOD= 1.681 **

 ***** HIGH ENERGY PROTONS *****

***** SPECTRUM IN PERCENT DELTA ENERGY *****

*** COMPOSITE ORBIT SPECTRUM ***

* EXPOSURE INDEX: ENERGY >5.00MEV *

ENERGY RANGES (MEV)	AVERAGED TOTAL FLUX #/CM**2/SEC	AVERAGED TOTAL FLUX #/CM**2/DAY	SPECTRUM PER CENT	ENERGY LEVELS (MEV)	AVERAGED INTEG. FLUX #/CM**2/SEC	AVERAGED INTEG. FLUX #/CM**2/DAY	INTENSITY RANGES #/CM**2/SEC	EXPOSURE DURATION (HOURS)	TOTAL # OF ACCUMULATED PARTICLES
3.00-4.00	3.585E 02	3.443E 07	29.875	3.00	1.334E 03	1.152E 08	ZERO FLUX	16.133	0.0
5.00-10.0	4.206E 02	3.634E 07	31.533	4.00	1.099E 03	9.496E 07	1.E0-1.E1	1.583	1.980E 04
10.0-15.0	1.531E 02	1.323E 07	11.477	5.00	9.254E 02	8.082E 07	1.E1-1.E2	1.600	2.357E 05
15.0-20.0	4.350E 01	3.793E 06	3.292	7.00	6.900E 02	5.962E 07	1.E2-1.E3	1.383	2.183E 06
20.0-25.0	2.280E 01	1.970E 06	1.709	10.0	5.148E 02	4.448E 07	1.E3-1.E4	2.517	4.293E 07
25.0-30.0	2.075E 01	1.793E 06	1.556	12.0	4.461E 02	3.854E 07	1.E4-1.E5	0.783	3.545E 07
30.0-50.0	6.686E 01	5.777E 06	5.012	15.0	3.617E 02	3.125E 07	1.E5-1.E6	0.0	0.0
50.0-100.	7.707E 01	6.655E 06	5.778	18.0	3.275E 02	2.830E 07	1.E6-1.E7	0.0	0.0
100.-OVER	1.303E 02	1.126E 07	5.768	20.0	3.178E 02	2.746E 07	1.E7-OVER	0.0	0.0
				25.0	2.950E 02	2.545E 07			
TOTAL	1.334E 03	1.152E 08	100.000	30.0	2.742E 02	2.365E 07	TOTAL	24.000	8.082E 07
				50.0	2.074E 02	1.792E 07			
				60.0	1.866E 02	1.629E 07			
				70.0	1.719E 02	1.484E 07			
				100.	1.303E 02	1.126E 07			

Table 98

 ** CRITICAL FLUX STUDY WITH COMPOSITE PARTICLE ENVIRONMENTS: VETTER AP5, AP6, AP7, AP4, AP3, FOR SOLAR MAXIMUM *** UNIFLX OF 1973 **
 ** ELECTRON FLUXES EXPONENTIALLY DECAYED TO 1970. 0 WITH LIFETIME: P.G.STASINOPOLUSO.P.VERZASIU ** CUTOFF TIMES: **
 ** MAGNETIC COORDINATES R AND L COMPLETED BY INLARA OF 1972 WITH ALLNAG, MODEL 4: GAINESWEELEY 120-TERM PDG E/69 * TIME= 1974.0 **
 ** VEHICLE : SATS ** INCLINATION= 30DEG ** PERIGEE= 200KM ** APOGEE= 900KM ** B/L ORBIT TYPE: TD7036 ** PERIOD= 1.681 **

 ELECTRONS

***** SPECTRUM IN PERCENT DELTA ENERGY *****

ENERGY RANGES (MEV)	AVERAGED TOTAL FLUX #/CM**2/SEC	AVERAGED TOTAL FLUX #/CM**2/DAY	SPECTRUM PER CENT
0.0 - 0.500	1.0E7F 06	5.350E 10	55.368
0.500-1.00	4.603E 04	3.977E 09	4.036
1.00-1.50	3.401E 03	2.535E 08	0.298
1.50-2.00	1.675E 03	1.451E 09	0.147
2.00-2.50	1.015E 03	8.767E 07	0.089
2.50-3.00	4.464E 02	3.857E 07	0.039
3.00-4.00	2.187E 02	1.850E 07	0.019
4.00-5.00	2.130E 00	1.840E 05	0.000
5.00-OVER	0.0	0.0	0.0
TOTAL	1.140E 06	5.647E 10	100.000

*** COMPOSITE ORBIT SPECTRUM ***

ENERGY LEVELS (MEV)	AVERAGED INTEG.FLUX #/CM**2/SEC	AVERAGED INTEG.FLUX #/CM**2/DAY
0.0	1.140E 06	9.847E 10
0.250	2.078E 05	1.795E 10
0.500	5.275E 04	4.561E 09
0.750	1.384E 04	1.196E 09
1.00	6.762E 03	5.842E 08
1.25	4.821E 03	4.165E 08
1.50	3.361E 03	2.904E 08
1.75	2.492E 03	2.153E 08
2.00	1.662E 03	1.453E 08
2.50	6.673E 02	5.765E 07
3.00	2.205E 02	1.906E 07
3.50	2.235E 01	1.931E 06
4.00	2.130E 00	1.840E 05
4.50	3.355E 02	2.855E 03
5.00	0.0	0.0

* EXPOSURE INDEX ENERGY > 0.500MEV *

INTENSITY RANGES #/CM**2/SEC	EXPOSURE DURATION (HOURS)	TOTAL # OF ACCUMULATED PARTICLES
ZERO FLUX	17.533	0.0
1.E0-1.E1	0.817	1.104E 04
1.E1-1.E2	0.867	1.058E 05
1.E2-1.E3	0.750	1.155E 06
1.E3-1.E4	0.800	1.459E 07
1.E4-1.E5	1.500	2.607E 08
1.E5-1.E6	1.233	1.742E 09
1.E6-1.E7	0.450	2.542E 09
1.E7-OVER	0.0	0.0
TOTAL	24.000	4.561E 09

Table 99

 ** GREITAL FLUX STUDY WITH COMPOSITE PARTICLE ENVIRONMENTS: VETTES AP5, AP6, AP7; AB4, AB5, FOR SOLAR MAXIMUM *** UNIFLX OF 1973 **
 ** ELECTRON FLUXES EXPONENTIALLY DECAYED TO 1970. C WITH LIFETIMES: E.G. STASSINOPULOS & VERZARU ** CUTOFF TIMES: **
 ** MAGNETIC COORDINATES B AND L COMPILED BY INVARA OF 1972 WITH ALLWAG. MODEL 4: CAINSWEELEY 120-TERM POGG E/49 * TIME= 1974.0 **
 ** VEHICLE 1. . . . SATS ** INCLINATION= 60DEG ** PERIGEE= 800KM ** APCGEE= 800KM ** B/L ORBIT TAPE: TD7036 ** PERIGEE= 1.68) **

 LCM ENERGY FFCIONS *****

***** SPECTRUM- IN PERCENT DELTA ENERGY *****

ENERGY- RANGES (MEV)	AVERAGED TOTAL FLUX #/CM**2/SEC	AVERAGED TOTAL FLUX #/CM**2/DAY	SPECTRUM PER CENT
.100-.500	2.659E 04	2.297E 09	52.722
.500-.900	2.534E 03	2.169E 08	7.894
.900-1.10	4.655E 02	4.026E 07	1.450
1.10-1.50	5.469E 02	4.725E 07	1.702
1.50-2.00	3.765E 02	3.253E 07	1.172
2.00-2.50	2.445E 02	2.112E 07	0.761
2.50-3.00	1.635E 02	1.415E 07	0.571
3.00-3.50	1.476E 02	1.215E 07	0.459
3.50-OVER	1.054E 03	9.109E 07	3.280
TOTAL	3.214E 04	2.717E 09	100.000

*** COMPOSITE ORBIT SPECTRUM ***

ENERGY LEVELS >(MEV)	AVERAGED INTEG. FLUX #/CM**2/SEC	AVERAGED INTEG. FLUX #/CM**2/DAY
.100	7.214E 04	2.777E 09
.300	9.563E 03	8.263E 08
.500	5.553E 03	4.756E 08
.700	3.866E 03	3.340E 08
.900	3.019E 03	2.609E 08
1.10	2.553E 03	2.206E 08
1.30	2.236E 03	1.932E 08
1.50	2.006E 03	1.734E 08
1.75	1.753E 03	1.545E 08
2.00	1.620E 03	1.406E 08
2.25	1.457E 03	1.254E 08
2.50	1.365E 03	1.197E 08
2.75	1.288E 03	1.113E 08
3.00	1.202E 03	1.038E 08
3.50	1.054E 03	9.109E 07

* EXPOSURE INDEX: ENERGY >.100MEV *

INTENSITY RANGES #/CM**2/SEC	EXPOSURE DURATION (HOURS)	TOTAL # OF ACCUMULATED PARTICLES
ZERO FLUX	14.243	0.0
1.E0-1.E1	0.950	1.370E 04
1.E1-1.E2	1.033	1.352E 05
1.E2-1.E3	0.917	1.248E 06
1.E3-1.E4	1.783	2.552E 07
1.E4-1.E5	3.067	3.844E 08
1.E5-1.E6	1.917	1.883E 09
1.E6-1.E7	0.100	4.780E 09
1.E7-OVER	0.0	0.0
TOTAL	24.000	2.777E 09

Table 100

 ** CREDITAL FLUX STUDY WITH COMPOSITE PARTICLE ENVIRONMENTS: VERTES AFS, AF6, AP7; AE4, AES, FC9 SOLAR MAXIMUM *** UNIFLX OF 1973 **
 ** ELECTRON FLUXES EXPONENTIALLY DECAYED TO 1970. 0 WITH LIFETIMES: E.G. STASSINOPOLUSAP. VERZARIU ** CUTOFF TIMES: **
 ** MAGNETIC COORDINATES B AND L COMPLETED BY INVARA OF 1972 WITH ALLMAG, MODEL 4; CAINESSWEENEY 120-TERM DOGG 8/69 * TIME= 1974.0 **
 ** VEHICLE : SATS ** INCLINATION= 60DEG ** PERIGEE= 800KM ** APCGEE= 800KM ** B/L ORBIT TAPE: TD7036 ** PERIOD= 1.681 **

 HIGH ENERGY PROTONS *****

***** SPECTRUM IN PERCENT DELTA ENERGY *****

ENERGY RANGES (MEV)	AVERAGED TOTAL FLUX #/CM**2/SEC	AVERAGED TOTAL FLUX #/CM**2/DAY	SPECTRUM PER CENT
3.00-5.00	4.718E 02	4.078E 07	35.253
5.00-10.0	4.121E 02	3.560E 07	34.285
10.0-15.0	1.112E 02	9.610E 06	5.254
15.0-20.0	2.583E 01	2.576E 06	2.480
20.0-25.0	1.455E 01	1.255E 06	1.247
25.0-30.0	1.298E 01	1.122E 06	1.080
30.0-50.0	3.852E 01	3.363E 06	3.238
50.0-100.	4.242E 01	3.665E 06	3.529
100.-OVER	6.770E 01	5.850E 06	5.633
TOTAL	1.202E 03	1.038E 08	100.000

*** COMPOSITE GRET SPECTRUM ***

ENERGY LEVELS (MEV)	AVERAGED INTEG. FLUX #/CM**2/SEC	AVERAGED INTEG. FLUX #/CM**2/DAY
3.00	1.202E 03	1.038E 08
4.00	9.314E 02	8.047E 07
5.00	7.301E 02	6.308E 07
7.00	4.697E 02	4.059E 07
10.0	3.181E 02	2.748E 07
12.0	2.659E 02	2.267E 07
15.0	2.068E 02	1.787E 07
18.0	1.837E 02	1.587E 07
20.0	1.770E 02	1.525E 07
25.0	1.620E 02	1.400E 07
30.0	1.450E 02	1.288E 07
50.0	1.101E 02	9.515E 06
60.0	9.564E 01	8.605E 06
70.0	9.032E 01	7.803E 06
100.	6.770E 01	5.850E 06

* EXPOSURE INDEX: ENERGY > 5.00MEV *

INTENSITY RANGES #/CM**2/SEC	EXPOSURE DURATION (HOURS)	TOTAL # OF ACCUMULATED PARTICLES
ZERO FLUX	18.033	0.0
1.E0-1.E1	1.117	1.431E 04
1.E1-1.E2	1.033	1.480E 05
1.E2-1.E3	1.133	1.775E 06
1.E3-1.E4	2.100	3.360E 07
1.E4-1.E5	0.583	2.755E 07
1.E5-1.E6	0.0	0.0
1.E6-1.E7	0.0	0.0
1.E7-OVER	0.0	0.0
TOTAL	24.000	6.309E 07

Table 101

 ** ORBITAL FLUX STUDY WITH COMPOSITE PARTICLE ENVIRONMENTS: VETTES AFS, AP6, AP7, AE4, AE5, FOR SOLAR MAXIMUM *** UNIFLX OF 1973 **
 ** ELECTRON FLUXES EXPONENTIALLY DECAYED TO 1970.0 WITH LIFETIMES: E.G. STASSINOPOLSKY, VERZARIU ** CUTOFF TIMES: **
 ** MAGNETIC COORDINATES E AND L COMPUTED BY INVASA OF 1972 WITH ALLMAG, MODEL 4: CAINE-SWENEY 120-TERM PQGO 8/69 * TIME= 1974.0 **
 ** VEHICLE : SATS ** INCLINATION= 60DEG ** PERIGEE= 800KM ** APOGEE= 800KM ** B/L ORBIT TAPE: TD7C36 ** PERIOD= 1.681 **

 ***** ELECTRONICS *****

***** SPECTRUM IN PERCENT DELTA ENERGY *****

ENERGY RANGES (MEV)	AVERAGED TOTAL FLUX #/CM**2/SEC	AVERAGED TOTAL FLUX #/CM**2/DAY	SPECTRUM PER CENT
.0 - .500	1.167E 06	1.008E 11	95.720
.500-1.00	3.952E 04	3.445E 09	3.276
1.00-1.50	6.684E 03	5.715E 08	0.548
1.50-2.00	2.956E 03	2.554E 08	0.243
2.00-2.50	1.463E 03	1.260E 08	0.122
2.50-3.00	7.024E 02	6.069E 07	0.059
3.00-4.00	3.921E 02	3.388E 07	0.032
4.00-5.00	9.460E 00	8.159E 05	0.001
5.00-EVEN	0.0	0.0	0.0
TOTAL	1.215E 06	1.053E 11	100.000

*** COMPOSITE ORBIT SPECTRUM ***

ENERGY LEVELS >(MEV)	AVERAGED INTEG.FLUX #/CM**2/SEC	AVERAGED INTEG.FLUX #/CM**2/DAY
.0	1.219E 06	1.053E 11
.250	1.817E 05	1.570E 10
.500	5.215E 04	4.506E 09
.750	2.189E 04	1.891E 09
1.00	1.224E 04	1.057E 09
1.25	8.248E 03	7.126E 08
1.50	5.553E 03	4.798E 08
1.75	3.882E 03	3.328E 08
2.00	2.557E 03	2.243E 08
2.50	1.104E 03	9.538E 07
3.00	4.016E 02	3.470E 07
3.50	8.736E 01	7.548E 06
4.00	9.460E 00	8.159E 05
4.50	2.068E 01	1.787E 04
5.00	0.0	0.0

* EXPOSURE INDEX: ENERGY >.500MEV *

INTENSITY RANGES #/CM**2/SEC	EXPOSURE DURATION (HOURS)	TOTAL # OF ACCUMULATED PARTICLES
ZERO FLUX	13.233	0.0
1.E0-1.E1	0.633	1.041E 04
1.E1-1.E2	0.533	8.849E 04
1.E2-1.E3	0.883	1.215E 06
1.E3-1.E4	1.750	2.768E 07
1.E4-1.E5	3.400	5.894E 08
1.E5-1.E6	3.367	2.695E 09
1.E6-1.E7	0.200	1.193E 09
1.E7-OVER	0.0	0.0
TOTAL	24.000	4.506E 09

Table 102

 ** CREDIT FLUX STUDY WITH COMPOSITE PARTICLE ENVIRONMENTS: VETTES ARE, AP6, AP7; AP4, AP5, P40 SOLAR MAXIMUM *** UNIFLX OF 1973 **
 ** ELECTRON FLUXES EXPONENTIALLY DECAYED TO 1970. 0 WITH LIFETIMES: E.G. STASSINOPOLUSEP, VERZARIU ** CUTOFF TIMES: **
 ** MAGNETIC COORDINATES P AND L COMPUTED BY INVASA OF 1972 WITH ALLVAG. MODEL 4: CAINESWEEFNEY 120-TERM POGC 6/69 * TIME= 1974.0 **
 ** VEHICLE : SATS ** INCLINATION= 50DEG ** PERIGEE= 800KM ** APCGEE= 800KM ** B/L ORBIT TYPE: TD7036 ** PERIOD= 1.681 **

 ***** LCM ENERGY FLECTIONS *****

***** SPECTRUM IN PERCENT DELTA ENERGY *****

ENERGY RANGES (MEV)	AVERAGED TOTAL FLUX #/CM**2/SEC	AVERAGED TOTAL FLUX #/CM**2/DAY	SPECTRUM PER CENT
.100-.500	2.677E C4	2.313E 09	57.505
.500-.900	1.675E C3	1.447E 08	5.475
.900-1.10	2.975E C2	2.570E 07	0.973
1.10-1.50	3.580E C2	3.053E 07	1.170
1.50-2.00	2.575E C2	2.225E 07	0.842
2.00-2.50	1.736E 02	1.500E 07	0.568
2.50-3.00	1.334E C2	1.153E 07	0.436
3.00-3.50	1.090E C2	9.419E 06	0.356
3.50-COVER	8.181E C2	7.069E 07	2.675
TOTAL	3.059E 04	2.643E 09	100.000

*** COMPOSITE GRET SPECTRUM ***

ENERGY LEVELS (MEV)	AVERAGED INTEG. FLUX #/CM**2/SEC	AVERAGED INTEG. FLUX #/CM**2/DAY
.100	3.059E 04	2.643E 09
.300	7.052E C3	6.092E 08
.500	7.822E C3	3.302E 08
.700	2.551E C3	2.325E 08
.900	2.147E C3	1.855E 08
1.10	1.950E C3	1.595E 08
1.30	1.644E C3	1.420E 08
1.50	1.452E C3	1.289E 08
1.75	1.347E C3	1.164E 08
2.00	1.234E C3	1.066E 08
2.25	1.141E C3	9.856E 07
2.50	1.061E C3	9.163E 07
2.75	9.901E C2	8.555E 07
3.00	9.372E C2	8.011E 07
3.50	8.161E C2	7.069E 07

* EXPOSURE INDEX: ENERGY > 1.00MEV *

INTENSITY RANGES #/CM**2/SEC	EXPOSURE DURATION (HOURS)	TOTAL # OF ACCUMULATED PARTICLES
ZE90 FLUX	15.583	0.0
1.E0-1.E1	0.817	9.480E 03
1.E1-1.E2	0.867	1.051E 03
1.E2-1.E3	0.933	1.360E 06
1.E3-1.E4	1.233	1.835E 07
1.E4-1.E5	2.567	3.172E 08
1.E5-1.E6	1.917	1.915E 08
1.E6-1.E7	0.083	3.905E 08
1.E7-OVER	0.0	0.0
TOTAL	24.000	2.643E 09

Table 103

 ** ORBITAL FLUX STUDY WITH COMPOSITE PARTICLE ENVIRONMENTS: VETTES AP5, AP6, AP7; AE4, AEE, FOR SOLAR MAXIMUM **** UNIFLX OF 1973 **
 ** ELECTRON FLUXES EXPONENTIALLY DECAYED TO 1973. C WITH LIFETIMES: E.G. STASSINOPOLUCSP, VERZARIU ** CUTOFF TIMES: **
 ** MAGNETIC COORDINATES B AND L COMPLETED BY INVARA CF 1972 WITH ALLMAG. MCDL 4: CAINE&SWEENEY 120-TERM POGO 8/69 * TIME= 1974.0 **
 ** VEHICLE: 1. SATE. ** INCLINATION= 90DEG ** PERIGEE= 800KM ** APCGEE= 800KM ** B/L ORBIT TAPE: TD7036 ** PERIOD= 1.681 **

***** HIGH ENERGY PROTONS *****

***** SPECTRUM IN PERCENT DELTA ENERGY *****

*** COMPOSITE ORBIT SPECTRUM ***

* EXPOSURE INDEX: ENERGY >5.00MEV *

ENERGY RANGES (MEV)	AVERAGED TOTAL FLUX #/CM**2/SEC	AVERAGED TOTAL FLUX #/CM**2/DAY	SPECTRUM PER CENT	ENERGY LEVELS (MEV)	AVERAGED INTEG. FLUX #/CM**2/SEC	AVERAGED INTEG. FLUX #/CM**2/DAY	INTENSITY RANGES #/CM**2/SEC	EXPOSURE DURATION (HOURS)	TOTAL # CF ACCUMULATED PARTICLES
3.00-5.00	3.507E 02	3.030E 07	37.828	3.00	9.272E 02	8.011E 07	ZERO FLUX	19.417	0.0
5.00-10.0	3.161E 02	2.731E 07	34.098	4.00	7.263E 02	6.275E 07	1.E0-1.E1	0.950	1.237E 04
10.0-15.0	8.538E 01	7.722E 06	5.640	5.00	5.764E 02	4.980E 07	1.E1-1.E2	0.683	9.875E 04
15.0-20.0	2.372E 01	2.050E 06	2.559	7.00	3.789E 02	3.274E 07	1.E2-1.E3	0.883	1.190E 06
20.0-25.0	1.181E 01	1.020E 06	1.274	10.0	2.603E 02	2.249E 07	1.E3-1.E4	1.583	2.578E 07
25.0-30.0	1.034E 01	8.931E 05	1.115	12.0	2.186E 02	1.885E 07	1.E4-1.E5	0.483	2.272E 07
30.0-50.0	3.149E 01	2.721E 06	3.396	15.0	1.709E 02	1.477E 07	1.E5-1.E6	0.0	0.0
50.0-100.	3.551E 01	3.068E 06	3.830	18.0	1.524E 02	1.317E 07	1.E6-1.E7	0.0	0.0
100.-OVER	5.804E 01	5.015E 06	6.260	20.0	1.472E 02	1.272E 07	1.E7-OVER	0.0	0.0
				25.0	1.354E 02	1.170E 07			
TOTAL	9.271E 02	8.011E 07	100.000	30.0	1.250E 02	1.080E 07	TOTAL	24.000	4.980E 07
				50.0	9.355E 01	8.082E 06			
				60.0	8.482E 01	7.328E 06			
				70.0	7.703E 01	6.655E 06			
				100.	5.804E 01	5.015E 06			

Table 104

 ** ORBITAL FLUX STUDY WITH COMPOSITE PARTICLE ENVIRONMENTS: VETTES APS, AP6, AP7; AE4, AEE, FOR SOLAR MAXIMUM *** UNIFLX OF 1973 **
 ** ELECTRON FLUXES EXPONENTIALLY DECAYED TO 1970.0 WITH LIFETIMES: E.G. STASSINOPOLCS&P. VERZARIU ** CUTOFF TIMES: **
 ** MAGNETIC COORDINATES B AND L COMPUTED BY INVAFR OF 1972 WITH ALLWAG, MODEL 4; CAIN&SNEENEY 120-TERM POGC 8/69 * TIME= 1974.0 **
 ** VEHICLE: SATS ** INCLINATION= 90DEG ** PERIGEE= 800KM ** APCGEE= 1800KM ** B/L ORBIT TAPE: TD7036 ** PERIOD= 1.681 **

 ELECTRONS *****

***** SPECTRUM IN PERCENT DELTA ENERGY *****

ENERGY RANGES (MEV)	AVERAGED TOTAL FLUX #/CM**2/SEC	AVERAGED TOTAL FLUX #/CM**2/DAY	SPECTRUM PER CENT
.0 - .500	9.392E 05	8.115E 10	55.454
.500-1.00	3.407E 04	2.943E 09	3.462
1.00-1.50	5.916E 03	5.111E 08	0.601
1.50-2.00	2.561E 03	2.213E 08	0.260
2.00-2.50	1.264E 02	1.092E 08	0.129
2.50-3.00	5.850E 02	5.055E 07	0.059
3.00-4.00	3.240E 02	2.800E 07	0.033
4.00-5.00	7.762E 00	6.706E 05	0.001
5.00-OVER	0.0	0.0	0.0
TOTAL	9.639E 05	8.501E 10	100.000

*** COMPOSITE ORBIT SPECTRUM ***

ENERGY LEVELS (MEV)	AVERAGED INTEG. FLUX #/CM**2/SEC	AVERAGED INTEG. FLUX #/CM**2/DAY
.0	9.839E 05	8.501E 10
.250	1.518E 05	1.311E 10
.500	4.472E 04	3.864E 09
.750	1.910E 04	1.650E 09
1.00	1.066E 04	9.208E 08
1.25	7.105E 03	6.135E 08
1.50	4.742E 03	4.097E 08
1.75	3.277E 03	2.832E 08
2.00	2.181E 03	1.884E 08
2.50	9.168E 02	7.921E 07
3.00	3.318E 02	2.867E 07
3.50	7.210E 01	6.225E 06
4.00	7.762E 00	6.706E 05
4.50	1.643E-01	1.419E 04
5.00	0.0	0.0

* EXPOSURE INDEX: ENERGY > 500MEV *

INTENSITY RANGES #/CM**2/SEC	EXPOSURE DURATION (HCURS)	TOTAL # OF ACCUMULATED PARTICLES
ZERO FLUX	14.800	0.0
1.E0-1.E1	0.517	8.916E 03
1.E1-1.E2	0.567	8.712E 04
1.E2-1.E3	0.767	1.176E 06
1.E3-1.E4	1.283	1.866E 07
1.E4-1.E5	2.933	5.007E 08
1.E5-1.E6	2.967	2.421E 09
1.E6-1.E7	0.167	9.226E 08
1.E7-OVER	0.0	0.0
TOTAL	24.000	3.864E 09

Table 105

 ** ORBITAL FLUX STUDY WITH COMPOSITE PARTICLE ENVIRONMENTS: VETTES AP5, AP6, AP7; AE4, AE5, FOR SOLAR MAXIMUM *** UNIFLX OF 1973 **
 ** ELECTRON FLUXES EXPONENTIALLY DECAYED TO 1970.0 WITH LIFETIMES: E.G. STASSINOPoulos & VERZARIU ** CUTOFF TIMES: **
 ** MAGNETIC COORDINATES B AND L COMPUTED BY INVARA OF 1972 WITH ALLMAG, MODEL 4: CAINESWEEENY 120-TERM POGO 8/69 * TIME= 1974.0 **
 ** VEHICLE : SATS ** INCLINATION= 0DEG ** PERIGEE= 1000KM ** APOGEE= 1000KM ** B/L ORBIT TAPE: TD7372 ** PERIOD= 1.752 **

***** LOW-ENERGY PROTONS *****

***** SPECTRUM IN PERCENT DELTA ENERGY ***** *** COMPOSITE ORBIT SPECTRUM *** * EXPOSURE INDEX: ENERGY > 1.00MEV *

ENERGY RANGES (MEV)	AVERAGED TOTAL FLUX #/CM**2/SEC	AVERAGED TOTAL FLUX #/CM**2/DAY	SPECTRUM PER CENT	ENERGY LEVELS (MEV)	AVERAGED INTEG. FLUX #/CM**2/SEC	AVERAGED INTEG. FLUX #/CM**2/DAY	INTENSITY RANGES #/CM**2/SEC	EXPOSURE DURATION (HOURS)	TOTAL # OF ACCUMULATED PARTICLES
.100-.500	5.434E 02	4.695E 07	16.277	.100	3.339E 03	2.885E 08	ZERO FLUX	5.683	0.0
.500-.900	4.055E 02	3.504E 07	12.147	.300	3.055E 03	2.639E 08	1.E0-1.E1	1.217	2.585E 04
.900-1.10	1.246E 02	1.077E 07	3.732	.500	2.795E 03	2.415E 08	1.E1-1.E2	6.390	6.590E 05
1.10-1.50	2.289E 02	1.978E 07	6.857	.700	2.558E 03	2.210E 08	1.E2-1.E3	3.167	4.075E 06
1.50-2.00	2.522E 02	2.179E 07	7.555	.900	2.390E 03	2.065E 08	1.E3-1.E4	4.850	7.519E 07
2.00-2.50	2.195E 02	1.897E 07	6.575	1.10	2.265E 03	1.957E 08	1.E4-1.E5	3.783	2.085E 08
2.50-3.00	1.913E 02	1.653E 07	5.731	1.30	2.147E 03	1.855E 08	1.E5-1.E6	0.0	0.0
3.00-3.50	1.670E 02	1.443E 07	5.003	1.50	2.036E 03	1.759E 08	1.E6-1.E7	0.0	0.0
3.50-OVER	1.206E 03	1.042E 08	36.122	1.75	1.906E 03	1.646E 08	1.E7-OVER	0.0	0.0
				2.00	1.784E 03	1.541E 08			
TOTAL	3.339E 03	2.885E 08	100.000	2.25	1.670E 03	1.443E 08	TOTAL	24.000	2.885E 08
				2.50	1.564E 03	1.352E 08			
				2.75	1.465E 03	1.266E 08			
				3.00	1.373E 03	1.186E 08			
				3.50	1.206E 03	1.042E 08			

Table 106

 ** ORBITAL FLUX STUDY WITH COMPOSITE PARTICLE ENVIRONMENTS: VETTES APS, AP6, AP7; AE4, AE5, FOR SOLAR MAXIMUM **** UNIFLX OF 1973 **
 ** ELECTRON FLUXES EXPONENTIALLY DECAYED TO 1970-0 WITH LIFETIMES: E.G. STASSINOPoulos & VERZARU ** CUTOFF TIMES: **
 ** MAGNETIC COORDINATES B AND L COMPUTED BY INVARA OF 1972 WITH ALLMAG, MODEL 4: CAINE & SWENF 120-TERM POGO 8/69 * TIME= 1974.0 **
 ** VEHICLE: SATS ** INCLINATION= 0DEG ** PERIGEE= 1000KM ** APOGEE= 1000KM ** S/L ORBIT TAPE: TD7372 ** PERIOD= 1.752 **

***** HIGH ENERGY PROTONS *****

***** SPECTRUM IN PERCENT DELTA ENERGY *****

*** COMPOSITE ORBIT SPECTRUM ***

* EXPOSURE INDEX: ENERGY > 5.00MEV *

ENERGY RANGES (MEV)	AVERAGED TOTAL FLUX #/CM**2/SEC	AVERAGED TOTAL FLUX #/CM**2/DAY	SPECTRUM PER CENT	ENERGY LEVELS (MEV)	AVERAGED INTEG. FLUX #/CM**2/SEC	AVERAGED INTEG. FLUX #/CM**2/DAY	INTENSITY RANGES #/CM**2/SEC	EXPOSURE DURATION (HOURS)	TOTAL # OF ACCUMULATED PARTICLES
3.00-5.00	4.288E 02	3.705E 07	31.228	3.00	1.373E 03	1.186E 08	ZERO FLUX	6.500	0.0
5.00-10.0	3.132E 02	2.706E 07	22.809	4.00	1.060E 03	9.158E 07	1.E0-1.E1	1.967	3.426E 04
10.0-15.0	1.406E 02	1.215E 07	10.243	5.00	9.442E 02	8.158E 07	1.E1-1.E2	5.167	6.920E 05
15.0-20.0	4.041E 01	3.491E 06	2.943	7.00	7.720E 02	6.670E 07	1.E2-1.E3	4.500	5.317E 06
20.0-25.0	1.959E 01	1.693E 06	1.427	10.0	6.311E 02	5.452E 07	1.E3-1.E4	5.867	7.554E 07
25.0-30.0	1.868E 01	1.614E 06	1.361	12.0	5.704E 02	4.929E 07	1.E4-1.E5	0.0	0.0
30.0-50.0	6.652E 01	5.748E 06	4.845	15.0	4.904E 02	4.237E 07	1.E5-1.E6	0.0	0.0
50.0-100.	1.098E 02	9.488E 06	7.998	18.0	4.581E 02	3.958E 07	1.E6-1.E7	0.0	0.0
100.-OVER	2.354E 02	2.034E 07	17.146	20.0	4.500E 02	3.888E 07	1.E7-OVER	0.0	0.0
				25.0	4.304E 02	3.719E 07			
TOTAL	1.373E 03	1.186E 08	100.000	30.0	4.117E 02	3.557E 07	TOTAL	24.000	8.159E 07
				50.0	3.452E 02	2.983E 07			
				60.0	3.195E 02	2.761E 07			
				70.0	2.959E 02	2.556E 07			
				100.	2.354E 02	2.034E 07			

Table 107

 ** ORBITAL FLUX STUDY WITH COMPOSITE PARTICLE ENVIRONMENTS: VETTES APS, AP6, AP7; AE4, AFS, FOR SOLAR MAXIMUM **** UNIFLX OF 1973 **
 ** ELECTRON FLUXES EXPONENTIALLY DECAYED TO 1970. 0 WITH LIFETIMES: E.G. STASSINOPOULOS & P. VERZARIU ** CUTOFF TIMES: **
 ** MAGNETIC COORDINATES S AND L COMPUTED BY INVARA OF 1972 WITH ALLMAG, MODEL 4: CAINCSWEENEY 120-TERM POGO 8/69 * TIME= 1974.0 **
 ** VEHICLE : SATS ** INCLINATION= 0DEG ** PERIGEE= 1000KM ** APOGEE= 1000KM ** B/L ORBIT TAPE: TD7372 ** PERIOD= 1.752 **

 ELECTRONS

***** SPECTRUM IN PERCENT DELTA ENERGY *****

ENERGY RANGES (MEV)	AVERAGED TOTAL FLUX #/CM**2/SEC	AVERAGED TOTAL FLUX #/CM**2/DAY	SPECTRUM PER CENT
.0 - .500	1.596E 05	1.379E 10	92.179
.500-1.00	1.049E 04	9.063E 08	6.058
1.00-1.50	1.199E 03	1.036E 08	0.692
1.50-2.00	1.025E 03	8.653E 07	0.592
2.00-2.50	5.934E 02	5.127E 07	0.343
2.50-3.00	1.770E 02	1.529E 07	0.102
3.00-4.00	5.570E 01	5.158E 06	0.034
4.00-5.00	2.801E-01	2.420E 04	0.000
5.00-OVER	0.0	0.0	0.0
TOTAL	1.732E 05	1.496E 10	100.000

*** COMPOSITE ORBIT SPECTRUM ***

ENERGY LEVELS >(MEV)	AVERAGED INTEG.FLUX #/CM**2/SEC	AVERAGED INTEG.FLUX #/CM**2/DAY
.0	1.732E 05	1.496E 10
.250	5.546E 04	4.792E 09
.500	1.354E 04	1.170E 09
.750	4.199E 03	3.628E 08
1.00	3.054E 03	2.639E 08
1.25	2.409E 03	2.081E 08
1.50	1.855E 03	1.603E 08
1.75	1.330E 03	1.149E 08
2.00	8.303E 02	7.174E 07
2.50	2.370E 02	2.047E 07
3.00	5.998E 01	5.182E 06
3.50	4.347E 00	3.756E 05
4.00	2.801E-01	2.420E 04
4.50	0.0	0.0
5.00	0.0	0.0

* EXPOSURE INDEX: ENERGY >.500MEV *

INTENSITY RANGES #/CM**2/SEC	EXPOSURE DURATION (HOURS)	TOTAL # OF ACCUMULATED PARTICLES
ZERO FLUX	6.917	0.0
1.E0-1.E1	1.133	1.990E 04
1.E1-1.E2	3.517	5.554E 05
1.E2-1.E3	4.933	6.044E 06
1.E3-1.E4	1.883	2.766E 07
1.E4-1.E5	5.200	9.787E 08
1.E5-1.E6	0.417	1.572E 08
1.E6-1.E7	0.0	0.0
1.E7-OVER	0.0	0.0
TOTAL	24.000	1.170E 09

Table 10g

 ** ORBITAL FLUX STUDY WITH COMPOSITE PARTICLE ENVIRONMENTS: VETTES APS, AP6, AP7; AE4, AE5, FOR SOLAR MAXIMUM *** UNIFLX OF 1973 **
 ** ELECTRON FLUXES EXPONENTIALLY DECAYED TO 1970. 0 WITH LIFETIMES: E.G. STASSINPOULOS&P. VERZARIU ** CUTOFF TIMES: **
 ** MAGNETIC COORDINATES B AND L COMPUTED BY INVARA OF 1972 WITH ALLMAG, MODEL 4: CAIN&SWEENEY 120-TERM POGO 8/69 * TIME= 1974.0 **
 ** VEHICLE : SATS ** INCLINATION= 30DEG ** PERIGEE= 1000KM ** APOGEE= 1000KM ** B/L ORBIT TAPE: TD7372 ** PERIOD= 1.752 **

 ***** LOW ENERGY PROTONS *****

***** SPECTRUM IN PERCENT DELTA ENERGY *****

ENERGY RANGES (MEV)	AVERAGED TOTAL FLUX #/CM**2/SEC	AVERAGED TOTAL FLUX #/CM**2/DAY	SPECTRUM PER CENT
0.100-0.500	1.048E 03	9.055E 07	16.507
0.500-0.900	7.317E 02	6.322E 07	11.524
0.900-1.010	1.626E 02	1.405E 07	2.561
1.10-1.50	3.038E 02	2.624E 07	4.785
1.50-2.00	3.442E 02	2.974E 07	5.421
2.00-2.50	3.099E 02	2.678E 07	4.882
2.50-3.00	2.802E 02	2.421E 07	4.413
3.00-3.50	2.541E 02	2.195E 07	4.002
3.50-OVER	2.914E 03	2.518E 08	45.904
TOTAL	6.349E 03	5.485E 08	100.000

*** COMPOSITE ORBIT SPECTRUM ***

ENERGY LEVELS >(MEV)	AVERAGED INTEG.FLUX #/CM**2/SEC	AVERAGED INTEG.FLUX #/CM**2/DAY
0.100	6.349E 03	5.485E 08
0.300	5.801E 03	5.012E 08
0.500	5.301E 03	4.580E 08
0.700	4.844E 03	4.185E 08
0.900	4.569E 03	3.948E 08
1.10	4.406E 03	3.807E 08
1.30	4.251E 03	3.673E 08
1.50	4.103E 03	3.545E 08
1.75	3.926E 03	3.392E 08
2.00	3.759E 03	3.247E 08
2.25	3.600E 03	3.110E 08
2.50	3.449E 03	2.980E 08
2.75	3.305E 03	2.856E 08
3.00	3.168E 03	2.738E 08
3.50	2.914E 03	2.518E 08

* EXPOSURE INDEX: ENERGY > 100MEV *

INTENSITY RANGES #/CM**2/SEC	EXPOSURE DURATION (HOURS)	TOTAL # OF ACCUMULATED PARTICLES
4ERD FLUX	8.883	0.0
1.E0-1.E1	1.550	1.980E 04
1.E1-1.E2	2.000	3.131E 05
1.E2-1.E3	4.383	7.055E 06
1.E3-1.E4	3.200	4.476E 07
1.E4-1.E5	3.983	4.964E 08
1.E5-1.E6	0.0	0.0
1.E6-1.E7	0.0	0.0
1.E7-OVER	0.0	0.0
TOTAL	24.000	5.485E 08

Table 109

 ** ORBITAL FLUX STUDY WITH COMPOSITE PARTICLE ENVIRONMENTS: VETTES APS, AP6, AP7; AE4, AES, FOR SOLAR MAXIMUM *** UNIFLX OF 1973 **
 ** ELECTRON FLUXES EXPONENTIALLY DECAYED TO 1970. 0 WITH LIFETIMES: E.G. STASSINOPOULOS P. VERZARIU ** CUTOFF TIMES: **
 ** MAGNETIC COORDINATES B AND L COMPUTED BY INVARA OF 1972 WITH ALLMAG. MODEL 4: CAIN & SWEENEY 120-TERM POGO 8/69 * TIME= 1974.0 **
 ** VEHICLE : SATS ** INCLINATION= 30DEG ** PERIGEE= 1000KM ** APOGEE= 1000KM ** B/L ORBIT TAPE: TD7372 ** PERIOD= 1.752 .00..

***** HIGH ENERGY PROTONS *****

***** SPECTRUM IN PERCENT DELTA ENERGY *****

ENERGY RANGES (MEV)	AVERAGED TOTAL FLUX #/CM**2/SEC	AVERAGED TOTAL FLUX #/CM**2/DAY	SPECTRUM PER CENT
3.00-5.00	9.101E 02	7.863E 07	28.724
5.00-10.0	1.081E 03	9.343E 07	34.129
10.0-15.0	3.735E 02	3.227E 07	11.788
15.0-20.0	1.075E 02	9.284E 06	3.391
20.0-25.0	5.682E 01	4.909E 06	1.793
25.0-30.0	5.129E 01	4.431E 06	1.619
30.0-50.0	1.619E 02	1.399E 07	5.109
50.0-100.	1.549E 02	1.239E 07	4.890
100.-OVER	2.711E 02	2.343E 07	8.557
TOTAL	3.168E 03	2.732E 08	100.000

*** COMPOSITE ORBIT SPECTRUM ***

ENERGY LEVELS >(MEV)	AVERAGED INTEG.FLUX #/CM**2/SEC	AVERAGED INTEG.FLUX #/CM**2/DAY
3.00	3.168E 03	2.738E 08
4.00	2.683E 03	2.318E 08
5.00	2.258E 03	1.951E 08
7.00	1.619E 03	1.398E 08
10.0	1.177E 03	1.017E 08
12.0	1.008E 03	8.710E 07
15.0	8.035E 02	6.942E 07
18.0	7.205E 02	6.225E 07
20.0	6.961E 02	6.014E 07
25.0	6.392E 02	5.523E 07
30.0	5.879E 02	5.080E 07
50.0	4.261E 02	3.681E 07
60.0	3.886E 02	3.357E 07
70.0	3.549E 02	3.066E 07
100.	2.711E 02	2.343E 07

* EXPOSURE INDEX: ENERGY >5.00MEV *

INTENSITY RANGES #/CM**2/SEC	EXPOSURE DURATION (HOURS)	TOTAL # OF ACCUMULATED PARTICLES
ZERO FLUX	9.683	0.0
1.E0-1.E1	2.400	3.613E 04
1.E1-1.E2	4.667	6.462E 05
1.E2-1.E3	2.133	2.898E 06
1.E3-1.E4	2.867	4.351E 07
1.E4-1.E5	2.250	1.480E 08
1.E5-1.E6	0.0	0.0
1.E6-1.E7	0.0	0.0
1.E7-OVER	0.0	0.0
TOTAL	24.000	1.951E 08

Table 110

 ** ORBITAL FLUX STUDY WITH COMPOSITE PARTICLE ENVIRONMENTS: VETTES A95, AP6, AP7; AP4, ALE, FOR SOLAR MAXIMUM *** UNIFLX OF 1973 **
 ** ELECTRON FLUXES EXPONENTIALLY DECAYED TO 1970.0 WITH LIFETIMES: C.G. STASSINOPULOS&P. VERZARIU ** CUTOFF TIMES: **
 ** MAGNETIC COORDINATES B AND L COMPUTED BY INVARA OF 1972 WITH ALLMAG, MODEL 4: CAINE&SWENFY 120-TERM POGO B/69 * TIME= 1974.0 **
 ** VEHICLE : SATS ** INCLINATION= 30DEG ** PERIGEE= 1000KM ** APOGEE= 1000KM ** E/L DREIT TAPE: TD7372 * PERIOD= 1.752 **

 ELECTRONS

***** SPECTRUM IN PERCENT DELTA ENERGY *****

ENERGY RANGES (MEV)	AVERAGED TOTAL FLUX #/CM**2/SEC	AVERAGED TOTAL FLUX #/CM**2/DAY	SPECTRUM PER CENT
0 -0.500	2.588E 00	2.230E 11	94.245
0.500-1.00	1.397E 05	1.207E 10	5.086
1.00-1.50	9.377E 03	8.101E 08	0.341
1.50-2.00	4.551E 03	3.941E 08	0.160
2.00-2.50	2.706E 03	2.338E 08	0.099
2.50-3.00	1.162E 03	1.004E 08	0.042
3.00-4.00	5.511E 02	4.762E 07	0.020
4.00-5.00	5.514E 00	4.764E 05	0.000
5.00-OVER	0.0	0.0	0.0
TOTAL	2.740E 00	2.372E 11	100.000

*** COMPOSITE DREIT SPECTRUM ***

ENERGY LEVELS >(MEV)	AVERAGED INTEG.FLUX #/CM**2/SEC	AVERAGED INTEG.FLUX #/CM**2/DAY
0	2.740E 06	2.372E 11
0.250	5.778E 05	4.993E 10
0.500	1.580E 05	1.365E 10
0.750	3.375E 04	3.348E 09
1.00	1.830E 04	1.587E 09
1.25	1.293E 04	1.121E 09
1.50	8.986E 03	7.764E 08
1.75	6.024E 03	5.723E 08
2.00	4.425E 03	3.823E 08
2.50	1.719E 03	1.485E 08
3.00	5.565E 02	4.809E 07
3.50	5.811E 01	5.021E 06
4.00	5.514E 00	4.764E 05
4.50	9.700E 00	8.438E 03
5.00	0.0	0.0

* EXPOSURE INDEX: ENERGY >.500MEV *

INTENSITY RANGES #/CM**2/SEC	EXPOSURE DURATION (HOURS)	TOTAL # OF ACCUMULATED PARTICLES
ZERO FLUX	14.383	0.0
1.E0-1.E1	0.767	9.720E 03
1.E1-1.E2	1.333	2.181E 05
1.E2-1.E3	1.200	1.378E 06
1.E3-1.E4	1.200	1.537E 07
1.E4-1.E5	1.967	3.202E 08
1.E5-1.E6	1.967	2.410E 09
1.E6-1.E7	1.183	1.091E 10
1.E7-OVER	0.0	0.0
TOTAL	24.000	1.365E 10

Table III

 ** ORBITAL FLUX STUDY WITH COMPOSITE PARTICLE ENVIRONMENTS: VETTES AP5, AP6, AP7; AE4, AE5, FOR SOLAR MAXIMUM *** UNIFLX OF 1973 **
 ** ELECTRON FLUXES EXPONENTIALLY DECAYED TO 1970, 0 WITH LIFETIMES: E.G. STASSINGPCULBS&P. VERZARIU ** CUTOFF TIMES: **
 ** MAGNETIC COORDINATES B AND L COMPUTED BY INVARA OF 1972 WITH ALLMAG, MODEL 4: CAIN&SWEENEY 120-TERM POGO 8/69 * TIME= 1974.0 **
 ** VEHICLE : SATS ** INCLINATION= 60DEG ** PERIGEE= 1000KM ** APOGEE= 1000KM ** 8/L ORBIT TAPE: T07372 ** PERIOD= 1.752 **

 ***** LOW-ENERGY PROTONS *****

***** SPECTRUM IN PERCENT DELTA ENERGY ***** *** COMPOSITE ORBIT SPECTRUM *** * EXPOSURE INDEX: ENERGY > 100MEV *

ENERGY RANGES (MEV)	AVERAGED TOTAL FLUX #/CM**2/SEC	AVERAGED TOTAL FLUX #/CM**2/DAY	SPECTRUM PER-CENT	ENERGY LEVELS (MEV)	AVERAGED INTEG. FLUX #/CM**2/SEC	AVERAGED INTEG. FLUX #/CM**2/DAY	INTENSITY RANGES #/CM**2/SEC	EXPOSURE DURATION (HOURS)	TOTAL # OF ACCUMULATED PARTICLES
100-500	4.700E 04	4.060E 09	82.808	100	5.675E 04	4.903E 09	ZERO FLUX	9.067	0.0
500-900	4.306E 03	3.721E 08	7.588	300	1.676E 04	1.448E 09	1.E0-1.E1	1.117	1.361E 04
900-1.10	7.749E 02	6.695E 07	1.365	500	9.757E 03	8.430E 08	1.E1-1.E2	1.283	1.827E 05
1.10-1.50	9.123E 02	7.883E 07	1.608	700	6.876E 03	5.941E 08	1.E2-1.E3	2.433	3.792E 06
1.50-2.00	6.348E 02	5.485E 07	1.119	900	5.450E 03	4.709E 08	1.E3-1.E4	2.667	4.335E 07
2.00-2.50	4.173E 02	3.606E 07	0.735	1.10	4.676E 03	4.040E 08	1.E4-1.E5	4.500	6.168E 08
2.50-3.00	3.169E 02	2.738E 07	0.558	1.30	4.147E 03	3.583E 08	1.E5-1.E6	2.733	3.234E 09
3.00-3.50	2.581E 02	2.230E 07	0.455	1.50	3.763E 03	3.251E 08	1.E6-1.E7	0.200	1.006E 09
3.50-OVER	2.136E 03	1.846E 08	3.764	1.75	3.405E 03	2.942E 08	1.E7-OVER	0.0	0.0
				2.00	3.128E 03	2.703E 08			
TOTAL	5.675E 04	4.603E 09	100.000	2.25	2.903E 03	2.508E 08	TOTAL	24.000	4.904E 09
				2.50	2.711E 03	2.342E 08			
				2.75	2.544E 03	2.198E 08			
				3.00	2.394E 03	2.069E 08			
				3.50	2.136E 03	1.846E 08			

Table 1/2

 ** ORBITAL FLUX STUDY WITH COMPOSITE PARTICLE ENVIRONMENTS: VETTES AP5, AP6, AP7; AE4, AE5. FOR SOLAR MAXIMUM **** UNIFLX OF 1973 **
 ** ELECTRON FLUXES EXPONENTIALLY DECAYED TO 1970. 0 WITH LIFETIMES: E.G. STASSINOPOULOS & VERZARIU. ** CUTOFF TIMES: **
 ** MAGNETIC COORDINATES B AND L COMPUTED BY INVARA OF 1972 WITH ALLMAG, MODEL 4: CAINE & SWEENEY 120-TERM POGO 8/69 * TIME= 1974.0 **
 ** VEHICLE: SATS ***** INCLINATION= 60DEG ** PERIGEE= 1000KM ** APOGEE= 1000KM ** B/L ORBIT TARE: TD7372 ** PERIOD= 1.752.00

 ***** HIGH ENERGY PROTONS *****

***** SPECTRUM IN PERCENT DELTA ENERGY *****

ENERGY RANGES (MEV)	AVERAGED TOTAL FLUX #/CM**2/SEC	AVERAGED TOTAL FLUX #/CM**2/DAY	SPECTRUM PER CENT
3.00-5.00	8.766E 02	7.574E 07	36.612
5.00-10.0	8.518E 02	7.360E 07	35.578
10.0-15.0	2.370E 02	2.048E 07	9.898
15.0-20.0	6.408E 01	5.537E 06	2.676
20.0-25.0	3.277E 01	2.831E 06	1.369
25.0-30.0	2.864E 01	2.475E 06	1.196
30.0-50.0	8.633E 01	7.459E 06	3.606
50.0-100.	8.108E 01	7.006E 06	3.387
100.-OVER	1.359E 02	1.174E 07	5.678

TOTAL	2.394E 03	2.069E 08	100.000
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*** COMPOSITE ORBIT SPECTRUM ***

ENERGY LEVELS (MEV)	AVERAGED INTEG. FLUX #/CM**2/SEC	AVERAGED INTEG. FLUX #/CM**2/DAY
3.00	2.394E 03	2.069E 08
4.00	1.918E 03	1.657E 08
5.00	1.518E 03	1.311E 08
7.00	9.833E 02	8.496E 07
10.0	6.658E 02	5.753E 07
12.0	5.552E 02	4.797E 07
15.0	4.288E 02	3.705E 07
18.0	3.793E 02	3.277E 07
20.0	3.648E 02	3.151E 07
25.0	3.320E 02	2.868E 07
30.0	3.033E 02	2.621E 07
50.0	2.170E 02	1.875E 07
60.0	1.972E 02	1.704E 07
70.0	1.795E 02	1.551E 07
100.	1.359E 02	1.174E 07

* EXPOSURE INDEX: ENERGY >5.00MEV *

INTENSITY RANGES #/CM**2/SEC	EXPOSURE DURATION (HOURS)	TOTAL # OF ACCUMULATED PARTICLES
ZERO FLUX	14.867	0.0
1.E0-1.E1	1.283	1.947E 04
1.E1-1.E2	2.450	3.161E 06
1.E2-1.E3	1.550	2.552E 06
1.E3-1.E4	2.400	3.566E 07
1.E4-1.E5	1.450	9.259E 07
1.E5-1.E6	0.0	0.0
1.E6-1.E7	0.0	0.0
1.E7-OVER	0.0	0.0

TOTAL	24.000	1.311E 08
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 ** ORBITAL FLUX STUDY WITH COMPOSITE PARTICLE ENVIRONMENTS: VETTES AP5, AP6, AP7; AE4, AE5, FOR SOLAR MAXIMUM *** UNIFLX OF 1973 **
 ** ELECTRON FLUXES EXPONENTIALLY DECAYED TO 1970. 0 WITH LIFETIMES: 5.6 STASSINOPOLUSAP, VERZARIU ** CUTOFF TIMES: **
 ** MAGNETIC COORDINATES B AND L COMPUTED BY INVARA OF 1972 WITH ALLMAG, MODEL 4: CAINESHEENEY 120-TERM POGO 8/69 * TIME= 1974.0 **
 ** VEHICLE : SATS ** INCLINATION= 60DEG ** PERIGEE= 1000KM ** APCEE= 1000KM ** B/L ORBIT TAPE: TD7373 ** PERIOD= 1.753 **

 ***** ELECTRONS *****

***** SPECTRUM IN PERCENT DELTA ENERGY *****				*** COMPOSITE ORBIT SPECTRUM ***			* EXPOSURE INDEX: ENERGY > 500MEV *		
ENERGY	AVERAGED	AVERAGED	SPECTRUM	ENERGY	AVERAGED	AVERAGED	INTENSITY	EXPOSURE	TOTAL
RANGES	TOTAL FLUX	TOTAL FLUX		LEVELS	INTEG. FLUX	INTEG. FLUX	RANGES	DURATION	ACCUMULATED
(MEV)	#/CM**2/SEC	#/CM**2/DAY	PER CENT	>(MEV)	#/CM**2/SEC	#/CM**2/DAY	#/CM**2/SEC	(HOURS)	PARTICLES
0.0-0.500	2.123E 06	1.834E 11	95.309	0.0	2.227E 06	1.924E 11	ZERO FLUX	10.833	0.0
0.500-1.00	8.431E 04	7.284E 09	3.786	0.250	3.747E 05	3.237E 10	1.E0-1.E1	0.433	6.716E 03
1.00-1.50	1.084E 04	9.363E 08	0.487	0.500	1.045E 05	9.027E 09	1.E1-1.E2	1.033	1.538E 09
1.50-2.00	4.905E 03	4.238E 08	0.220	0.750	3.741E 04	3.232E 09	1.E2-1.E3	1.050	1.430E 06
2.00-2.50	2.597E 03	2.244E 08	0.117	1.00	3.017E 04	1.743E 09	1.E3-1.E4	2.183	3.289E 07
2.50-3.00	1.184E 03	1.023E 08	0.053	1.25	1.377E 04	1.190E 09	1.E4-1.E5	3.533	5.942E 08
3.00-4.00	6.374E 02	5.507E 07	0.029	1.50	9.337E 03	8.067E 08	1.E5-1.E6	0.400	2.040E 09
4.00-5.00	1.337E 01	1.155E 06	0.001	1.75	6.591E 03	5.694E 08	1.E6-1.E7	0.533	4.557E 09
5.00-OVER	0.0	0.0	0.0	2.00	4.432E 03	3.830E 08	1.E7-OVER	0.0	0.0
				2.50	1.835E 03	1.586E 08			
TOTAL	2.227E 06	1.924E 11	100.000	3.00	6.508E 02	5.633E 07	TOTAL	24.000	8.027E 09
				3.50	1.254E 02	1.083E 07			
				4.00	1.337E 01	1.155E 06			
				4.50	2.890E-01	2.497E 04			
				5.00	0.0	0.0			

Table 114

 ** ORBITAL FLUX STUDY WITH COMPOSITE PARTICLE ENVIRONMENTS: VETTES AP5, AP6, AP7; AE4, AE5, FOR SOLAR MAXIMUM **** UNIFLX OF 1973 **
 ** ELECTRON FLUXES EXPONENTIALLY DECAYED TO 1970.0 WITH LIFETIMES: E.G. STASSINOPOULOS & P. VERZARIU ** CUTOFF TIMES: **
 ** MAGNETIC COORDINATES B AND L COMPUTED BY INVARA OF 1972 WITH ALLMAG, MODEL 4: CAINE & SWEENEY 120-TERM POGO 8/69 * TIME= 1974.0 **
 ** VEHICLE : SATS ** INCLINATION= 90DEG ** PERIGEE= 1000KM ** APOGEE= 1000KM. ** B/L ORBIT TAPE: TD7372 ** PERIOD= 1.752 **

 ***** LOW-ENERGY PROTONS *****

***** SPECTRUM IN PERCENT DELTA ENERGY *****				*** COMPOSITE ORBIT SPECTRUM ***			* EXPOSURE INDEX: ENERGY > 100MEV *		
ENERGY RANGES (MEV)	AVERAGED TOTAL FLUX #/CM**2/SEC	AVERAGED TOTAL FLUX #/CM**2/DAY	SPECTRUM PER CENT	ENERGY LEVELS >(MEV)	AVERAGED INTEG. FLUX #/CM**2/SEC	AVERAGED INTEG. FLUX #/CM**2/DAY	INTENSITY RANGES #/CM**2/SEC	EXPOSURE DURATION (HOURS)	TOTAL # OF ACCUMULATED PARTICLES
.100-.500	4.562E 04	3.542E 09	86.845	.100	5.253E 04	4.539E 09	ZERO FLUX	11.833	0.0
.500-.900	2.951E 03	2.550E 08	5.618	.300	1.257E 04	1.086E 09	1.E0-1.E1	1.017	1.303E 04
.900-1.10	5.148E 02	4.448E 07	0.980	.500	6.910E 03	5.970E 08	1.E1-1.E2	1.033	1.423E 05
1.10-1.50	6.117E 02	5.285E 07	1.164	.700	4.913E 03	4.245E 08	1.E2-1.E3	1.900	2.794E 06
1.50-2.00	4.371E 02	3.777E 07	0.832	.900	3.959E 03	3.421E 08	1.E3-1.E4	1.950	2.996E 07
2.00-2.50	2.966E 02	2.563E 07	0.565	1.10	3.444E 03	2.976E 08	1.E4-1.E5	3.450	4.835E 08
2.50-3.00	2.308E 02	1.994E 07	0.439	1.30	3.091E 03	2.671E 08	1.E5-1.E6	2.650	3.241E 09
3.00-3.50	1.912E 02	1.652E 07	0.364	1.50	2.833E 03	2.447E 08	1.E6-1.E7	0.167	7.818E 08
3.50-OVER	1.577E 03	1.449E 08	3.192	1.75	2.588E 03	2.236E 08	1.E7-OVER	0.0	0.0
				2.00	2.396E 03	2.070E 08			
TOTAL	5.253E 04	4.539E 09	100.000	2.25	2.236E 03	1.932E 08	TOTAL	24.000	4.639E 09
				2.50	2.099E 03	1.814E 08			
				2.75	1.978E 03	1.709E 08			
				3.00	1.868E 03	1.614E 08			
				3.50	1.677E 03	1.449E 08			

Table 115

 ** ORBITAL FLUX STUDY WITH COMPOSITE PARTICLE ENVIRONMENTS: VETTES AP5, AP6, AP7; AE4, AE5, FOR SOLAR MAXIMUM **** UNIFLX OF 1973 **
 ** ELECTRON FLUXES EXPONENTIALLY DECAYED TO 1970.0 WITH LIFETIMES: E.G. STASSINOPOULOS & P. VERZARIU ** CUTOFF TIMES: **
 ** MAGNETIC COORDINATES B AND L COMPUTED BY INVARA OF 1972 WITH ALLMAG, MODEL 4; CAINESWEELEY 120-TERM PQGD 8/69 * TIME= 1974.0 **
 ** VEHICLE: SAIS. ** INCLINATION= 90DEG ** PERIGEE= 1000KM ** APOGEE= 1000KM ** S/L ORBIT TAPE: TD7372 ** PERIOD= 1.752 **

***** HIGH ENERGY PROTONS *****

***** SPECTRUM IN PERCENT DELTA ENERGY *****				*** COMPOSITE ORBIT SPECTRUM ***			* EXPOSURE INDEX: ENERGY >5.00MEV *		
ENERGY RANGES (MEV)	AVERAGED TOTAL FLUX #/CM**2/SEC	AVERAGED TOTAL FLUX #/CM**2/DAY	SPECTRUM PER CENT	ENERGY LEVELS >(MEV)	AVERAGED INTEG. FLUX #/CM**2/SEC	AVERAGED INTEG. FLUX #/CM**2/DAY	INTENSITY RANGES #/CM**2/SEC	EXPOSURE DURATION (HOURS)	TOTAL # OF ACCUMULATED PARTICLES
3.00-5.00	6.580E 02	5.685E 07	35.221	3.00	1.868E 03	1.614E 08	ZERO FLUX	16.900	0.0
5.00-10.0	6.623E 02	5.722E 07	35.452	4.00	1.513E 03	1.308E 08	1.E0-1.E1	1.067	1.702E 04
10.0-15.0	1.911E 02	1.651E 07	10.230	5.00	1.210E 03	1.046E 08	1.E1-1.E2	1.967	2.767E 05
15.0-20.0	5.202E 01	4.495E 06	2.785	7.00	7.985E 02	6.899E 07	1.E2-1.E3	1.150	1.768E 06
20.0-25.0	2.669E 01	2.306E 06	1.429	10.0	5.479E 02	4.734E 07	1.E3-1.E4	1.783	2.800E 07
25.0-30.0	2.348E 01	2.029E 06	1.257	12.0	4.591E 02	3.967E 07	1.E4-1.E5	1.133	7.450E 07
30.0-50.0	7.147E 01	6.175E 06	3.826	15.0	3.568E 02	3.082E 07	1.E5-1.E6	0.0	0.0
50.0-100.	6.783E 01	5.861E 06	3.631	18.0	3.165E 02	2.734E 07	1.E6-1.E7	0.0	0.0
100.-OVER	1.153E 02	9.659E 06	6.170	20.0	3.047E 02	2.633E 07	1.E7-OVER	0.0	0.0
				25.0	2.780E 02	2.402E 07			
TOTAL	1.868E 03	1.614E 08	100.000	30.0	2.546E 02	2.199E 07	TOTAL	24.000	1.046E 08
				50.0	1.831E 02	1.582E 07			
				60.0	1.666E 02	1.439E 07			
				70.0	1.518E 02	1.311E 07			
				100.	1.153E 02	9.959E 06			

Table 116

 ** ORBITAL FLUX STUDY WITH COMPOSITE PARTICLE ENVIRONMENTS: VETTES APS, AP6, AP7; AE4, AE5, FOR SOLAR MAXIMUM **** UNIFLX OF 1973 **
 ** ELECTRON FLUXES EXPONENTIALLY DECAYED TO 1970.0 WITH LIFETIMES: E.G. STASSINOPOULOS & P. VERZARIU ** CUTOFF TIMES: **
 ** MAGNETIC COORDINATES B AND L COMPUTED BY INVARA OF 1972 WITH ALLMAG, MODEL 4: CAINESWEEENEY 120-TERM PDGO 8/69 * TIME= 1974.0 **
 ** VEHICLE : SATS ** INCLINATION= 90DEG ** PERIGEE= 1000KM ** APOGEE= 1000KM ** B/L ORBIT TAPE: TD7372 ** PERIOD= 1.752 **

 ELECTRONS *****

***** SPECTRUM IN PERCENT DELTA ENERGY *****

ENERGY RANGES (MEV)	AVERAGED TOTAL FLUX #/CM**2/SEC	AVERAGED TOTAL FLUX #/CM**2/DAY	SPECTRUM PER CENT.
.0 - .500	1.709E 06	1.476E 11	95.032
.500-1.00	7.214E 04	6.233E 09	4.013
1.00-1.50	9.358E 03	8.085E 08	0.520
1.50-2.00	4.165E 03	3.598E 08	0.232
2.00-2.50	2.157E 03	1.863E 08	0.120
2.50-3.00	9.693E 02	8.375E 07	0.054
3.00-4.00	5.179E 02	4.474E 07	0.029
4.00-5.00	1.071E 01	9.253E 05	0.001
5.00-OVER	0.0	0.0	0.0
TOTAL	1.798E 06	1.553E 11	100.000

*** COMPOSITE ORBIT SPECTRUM ***

ENERGY LEVELS (MEV)	AVERAGED INTEG. FLUX #/CM**2/SEC	AVERAGED INTEG. FLUX #/CM**2/DAY
.0	1.798E 06	1.553E 11
.250	3.139E 05	2.712E 10
.500	8.932E 04	7.717E 09
.750	3.193E 04	2.759E 09
1.00	1.718E 04	1.484E 09
1.25	1.162E 04	1.004E 09
1.50	7.819E 03	6.756E 08
1.75	5.479E 03	4.734E 08
2.00	3.654E 03	3.157E 08
2.50	1.498E 03	1.294E 08
3.00	5.286E 02	4.567E 07
3.50	1.008E 02	8.707E 06
4.00	1.071E 01	9.253E 05
4.50	2.230E-01	1.927E 04
5.00	0.0	0.0

* EXPOSURE INDEX: ENERGY >.500MEV *

INTENSITY RANGES #/CM**2/SEC	EXPOSURE DURATION (HOURS)	TOTAL # OF ACCUMULATED PARTICLES
ZERO FLUX	13.083	0.0
1.E0-1.E1	0.367	6.375E 03
1.E1-1.E2	0.967	1.497E 05
1.E2-1.E3	1.133	1.572E 06
1.E3-1.E4	1.133	1.650E 07
1.E4-1.E5	2.933	4.646E 08
1.E5-1.E6	3.950	3.438E 09
1.E6-1.E7	0.433	3.796E 09
1.E7-OVER	0.0	0.0
TOTAL	24.000	7.717E 09

Table 447

 ** ORBITAL FLUX STUDY WITH COMPOSITE PARTICLE ENVIRONMENTS: VETTES AP5, AP6, AP7; AE4, AE5, FOR SOLAR MAXIMUM *** UNIFLX OF 1973 **
 ** ELECTRON FLUXES EXPONENTIALLY DECAYED TO 1970. 0 WITH LIFETIMES: E.G. STASSINGPOULOS & VERZARIU ** CUTOFF TIMES: **
 ** MAGNETIC COORDINATES B AND L COMPUTED BY INVARA OF 1972 WITH ALLMAG, MODEL 4: CAINES & SWEENEY 120-TERM PDGD 8/69 * TIME = 1974.0 **
 ** VEHICLE : SATS ** INCLINATION = 30 DEG ** PERIGEE = 200 KM ** APOGEE = 200 KM ** B/L ORBIT TAPE: TD7963 ** PERIOD = 1.476 **

***** LOW ENERGY PROTONS *****

** TABLE OF PEAK AND TOTAL FLUXES PER PERIOD : ENERGY > .100 MEV **

PERIOD NUMBER	PEAK FLUX ENCOUNTERED #/CM**2/SEC	POSITION AT WHICH ENCOUNTERED LONGITUDE (DEG)	LATITUDE (DEG)	ALTITUDE (KM)	ORBIT TIME (HOURS)	FIELD(B) (GAUSS)	LINE(L) (E.R.)	TOTAL FLUX PER ORBIT #/CM**2/ORBIT
1	0.0	-96.956	2.05	200.00	0.01667	0.30549	1.07	0.0
2	0.0	-120.103	1.69	199.96	1.48333	0.29904	1.04	0.0
3	0.0	-143.249	1.34	199.92	2.95000	0.29868	1.02	0.0
4	0.0	-163.119	3.03	199.90	4.43333	0.30340	1.01	0.0
5	3.0	173.733	2.68	199.85	5.90000	0.31390	1.00	0.0
6	4.741E 00	26.808	-29.39	193.62	8.40000	0.28270	1.71	7.536E 02
7	2.879E 02	-21.663	-23.53	189.02	9.76667	0.24108	1.29	1.591E 05
8	9.402E 02	-28.524	-27.80	191.79	11.30000	0.23391	1.30	4.383E 05
9	1.349E 03	-34.406	-29.94	194.30	12.83333	0.22939	1.29	5.456E 05
10	1.179E 03	-31.238	-28.56	197.10	14.40000	0.23114	1.30	4.964E 05
11	9.173E 02	-41.906	-25.98	197.85	15.91667	0.22257	1.20	3.005E 05
12	2.388E 01	-57.127	-23.74	198.13	17.41664	0.22306	1.14	9.810E 03
13	1.387E 00	-58.862	-14.34	198.72	18.98331	0.23347	1.10	2.998E 02
14	0.0	-18.066	9.59	199.82	19.18330	0.28066	1.05	0.0
15	0.0	-41.229	9.25	199.77	20.64999	0.29614	1.15	0.0
16	0.0	-61.312	10.86	199.85	22.13332	0.33893	1.30	0.0

Table 112

 ** ORBITAL FLUX STUDY WITH COMPOSITE PARTICLE ENVIRONMENTS: VETTES AP5, AP6, AP7; AF4, AF5, FOR SOLAR MAXIMUM *** UNIFLX OF 1973 **
 ** ELECTRON FLUXES EXPONENTIALLY DECAYED TO 1970. 0 WITH LIFETIMES: E.G. STASSINOPoulos, VERZARIU ** CUTOFF TIMES: **
 ** MAGNETIC COORDINATES B AND L COMPUTED BY INVARI OF 1972 WITH ALLMAG, MODEL 4: CAINE-SWIFNEY 120-TERM POGO 8/69 * TIME= 1974.0 **
 ** VEHICLE: SATS ** INCLINATION= 30DEG ** PERIGEE= 200KM ** APOGEE= 200KM ** B/L ORBIT TAPE: TD7963 ** PERIOD= 1.475 **

***** HIGH ENERGY PROTONS *****
 ** TABLE OF PEAK AND TOTAL FLUXES PER PERIOD : ENERGY >5.00 MEV **

PERIOD NUMBER	PEAK FLUX ENCOUNTERED #/CM**2/SEC	POSITION AT WHICH ENCOUNTERED LONGITUDE LATITUDE ALTITUDE (DEG) (DEG) (KM)	ORBIT TIME (HOURS)	FIEL((B) (GAUSS)	LINE(L) (E.F.)	TOTAL FLUX PER ORBIT #/CM**2/ORBIT
1	0.0	-96.956 2.05 200.00	0.01667	0.30549	1.07	0.0
2	0.0	-126.103 1.69 199.96	1.48333	0.29904	1.04	0.0
3	0.0	-143.249 1.34 199.92	2.96000	0.29868	1.02	0.0
4	0.0	-163.119 3.03 199.90	4.43333	0.30340	1.01	0.0
5	0.0	173.733 2.68 199.85	5.90000	0.31390	1.00	0.0
6	0.0	153.870 4.36 199.85	7.38333	0.32737	0.99	0.0
7	2.445E 01	-17.671 -24.83 189.76	9.78333	0.24577	1.34	8.775E 03
8	9.618E 01	-24.234 -28.58 192.50	11.31667	0.23954	1.35	3.437E 04
9	1.509E 02	-24.406 -29.94 194.30	12.83333	0.22939	1.29	5.151E 04
10	1.223E 02	-31.238 -28.56 197.10	14.40000	0.23114	1.30	3.787E 04
11	2.363E 01	-50.276 -27.92 197.27	15.88333	0.22144	1.19	6.638E 03
12	1.257E 01	-53.218 -22.35 198.30	17.43333	0.22183	1.14	4.139E 03
13	1.261E 00	-61.597 -16.15 198.64	18.96666	0.23292	1.10	2.140E 02
14	0.0	-18.066 9.59 199.82	19.18330	0.28066	1.05	0.0
15	0.0	-61.229 9.25 199.77	20.64999	0.29614	1.15	0.0
16	0.0	-61.012 10.86 199.85	22.13332	0.33893	1.30	0.0

Table 119

 ** ORBITAL FLUX STUDY WITH COMPOSITE PARTICLE ENVIRONMENTS: VETTES AP5, AP6, AP7; AE4, AE5, FOR SOLAR MAXIMUM **** UNIFLX OF 1973 **
 ** ELECTRON FLUXES EXPONENTIALLY DECAYED TO 1970. 0 WITH LIFETIMES: E.G. STASSINOPOULOS & P. VERZARIU ** CUTOFF TIMES: **
 ** MAGNETIC COORDINATES B AND L COMPUTED BY INVARA OF 1972 WITH ALLMAG, MODEL 4: CAINE & SWEENEY 120-TERM POGO 8/69 * TIME= 1974.0 **
 ** VEHICLE: SATS ** INCLINATION= 30DEG ** PERIGEE= 200KM ** APOGEE= 200KM ** B/L ORBIT TAPE: TD7963 ** PERIOD= 1.475 **

***** ELCTRONS *****
 ** TABLE OF PEAK AND TOTAL FLUXES PER PERIOD : ENERGY >.500 MEV **

PERIOD NUMBER	PEAK FLUX ENCOUNTERED #/CM**2/SEC	POSITION AT WHICH ENCOUNTERED LONGITUDE LATITUDE ALTITUDE (DEG) (DEG) (KM)	ORBIT TIME (HOURS)	FIELD(B) (GAUSS)	LINE(L) (E.R.)	TOTAL FLUX PER ORBIT #/CM**2/ORBIT
1	0.0	-96.956 2.05 200.00	0.01667	0.30549	1.07	0.0
2	0.0	-120.103 1.69 199.96	1.48333	0.29904	1.04	0.0
3	0.0	-143.249 1.34 199.92	2.95000	0.29868	1.02	0.0
4	0.0	-163.119 3.03 199.90	4.43333	0.30340	1.01	0.0
5	0.0	173.733 2.68 199.85	5.90000	0.31390	1.00	0.0
6	0.0	153.870 4.36 199.85	7.38333	0.32737	0.99	0.0
7	3.720E 00	-40.396 -15.54 185.72	9.68333	0.22881	1.12	5.560E 02
8	2.178E 01	-44.930 -23.30 188.84	11.23333	0.22225	1.16	3.762E 03
9	2.116E 01	-34.834 -29.61 193.66	12.81667	0.22607	1.26	5.647E 03
10	2.197E 01	-39.973 -29.66 196.27	14.36667	0.22521	1.25	3.649E 03
11	1.794E 01	-50.276 -27.92 197.27	15.88333	0.22144	1.19	2.660E 03
12	1.937E 01	-53.218 -22.35 198.30	17.43333	0.22183	1.14	5.661E 03
13	1.275E 00	-61.597 -16.15 198.64	18.96666	0.23292	1.10	2.084E 02
14	0.0	-18.066 9.59 199.82	19.18330	0.28066	1.05	0.0
15	0.0	-41.229 9.25 199.77	20.64959	0.29614	1.15	0.0
16	0.0	-61.012 10.86 199.85	22.13332	0.33893	1.30	0.0

 ** ORBITAL FLUX STUDY WITH COMPOSITE PARTICLE ENVIRONMENTS: VETTES AP5, AP6, AP7; AE4, AE5. FOR SOLAR MAXIMUM **** UNIFLX OF 1973 **
 ** ELECTRON FLUXES EXPONENTIALLY DECAYED TO 1970. 4 WITH LIFETIMES: E.G. STASSINOPOULOS & P. VERZARIU ** CUTOFF TIMES: **
 ** MAGNETIC COORDINATES B AND L COMPUTED BY INVARA OF 1972 WITH ALLMAG. MODEL 4: CAINESWELFNEY 120-TERM PDGO 8/69 * TIME= 1974.0 **
 ** VEHICLE: SATS ** INCLINATION= 60DEG ** PERIGEE= 204KM ** APOGEE= 200KM ** B/L ORBIT TAPE: TD7963 ** PERIOD= 1.470 **

***** LOW ENERGY PROTONS *****
 ** TABLE OF PEAK AND TOTAL FLUXES PER PERIOD : ENERGY > .100 MEV **

PERIOD NUMBER	PEAK FLUX ENCOUNTERED #/CM**2/SEC	POSITION AT WHICH ENCOUNTERED			ORBIT TIME	FIELD(B)	LINE(L)	TOTAL FLUX PER ORBIT
		LONGITUDE (DEG)	LATITUDE (DEG)	ALTITUDE (KM)	(HOURS)	(GAUSS)	(E ₀ P ₀)	#/CM**2/ORBIT
1	0.0	-98.443	3.55	200.06	0.01667	0.31121	1.08	0.0
2	0.0	-121.477	2.33	200.02	1.48333	0.30029	1.04	0.0
3	0.0	-144.510	1.12	199.99	2.95000	0.29883	1.02	0.0
4	6.796E 04	61.253	-57.57	206.62	5.46667	0.43387	5.11	1.061E 07
5	1.721E 05	50.782	-59.49	207.73	6.96667	0.40471	4.88	3.449E 07
6	2.386E 05	41.267	-60.12	208.49	8.46667	0.37999	4.47	4.912E 07
7	7.469E 04	39.038	-58.34	208.92	9.98333	0.36527	4.08	2.185E 07
8	3.093E 04	21.153	-57.42	208.88	11.46667	0.32674	3.36	1.291E 07
9	3.684E 04	19.267	-49.65	207.74	13.00000	0.29342	2.68	1.330E 07
10	1.039E 04	-0.257	-47.90	207.39	14.48333	0.27684	2.24	3.911E 06
11	4.049E 03	-19.983	-46.07	207.00	15.96667	0.26273	1.83	1.310E 06
12	1.886E 03	-36.396	-41.19	205.93	17.46666	0.24271	1.49	6.248E 05
13	1.009E 03	-48.477	-29.44	203.33	19.00000	0.22177	1.21	2.305E 05
14	1.163E 01	-69.341	-27.23	202.87	20.48331	0.23619	1.15	1.200E 03
15	0.0	-50.164	7.82	200.18	20.64999	0.30436	1.20	0.0
16	0.0	-71.380	10.14	200.36	22.13332	0.34715	1.27	0.0

 ** ORBITAL FLUX STUDY WITH COMPOSITE PARTICLE ENVIRONMENTS: VETTES AP5, AP6, AP7; AE4, AE5, FOR SOLAR MAXIMUM *** UNIFLEX OF 1973 **
 ** ELECTRON FLUXES EXPONENTIALLY DECAYED TO 1970. 0-WITH-LIFETIMES: F0G5TAS5INGP0UL056P, VERZARIU ** CUTOFF TIMES: **
 ** MAGNETIC COORDINATES B AND L COMPUTED BY INVARA OF 1972 WITH ALLMAG, MODEL 4: CAINE SWEENEY 120-TERM POGO 8/69 * TIME= 1974.0 **
 ** VEHICLE : SATS ** INCLINATION= 60DEG ** PERIGEE= 200KM ** APOGEE= 200KM ** S/L ORBIT TAPE= 107903 ** PERIOD= 1.075 **

***** HIGH ENERGY PROTONS *****
 ** TABLE OF PEAK AND TOTAL FLUXES PER PERIOD : ENERGY >5.00 MEV **

PERIOD NUMBER	PEAK FLUX ENCOUNTERED #/CM**2/SWC	POSITION AT WHICH ENCOUNTERED			ORBIT TIME (HOURS)	FIELD(B) (GAUSS)	LINE(L) (E.R.)	TOTAL FLUX PER ORBIT #/CM**2/ORBIT
		LONGITUDE (DEG)	LATITUDE (DEG)	ALTITUDE (KM)				
1	0.0	-98.443	3.55	200.06	0.01667	0.31121	1.08	0.0
2	0.0	-121.477	2.33	200.82	1.48333	0.30029	1.04	0.0
3	0.0	-144.510	1.12	199.99	2.95000	0.29883	1.02	0.0
4	2.181E 02	27.511	-40.35	199.15	5.35000	0.28209	2.22	3.152E 04
5	6.141E 02	7.293	-42.35	199.96	6.83333	0.27163	2.11	1.155E 05
6	5.496E 02	-12.773	-44.30	200.75	8.31667	0.26355	1.88	1.534E 05
7	2.139E 02	-42.926	-37.12	197.91	9.75000	0.23269	1.35	7.740E 04
8	6.087E 00	-60.066	-42.27	199.93	11.25000	0.25428	1.37	1.390E 03
9	1.089E 02	30.959	-41.11	205.94	13.05000	0.28658	2.29	1.738E 04
10	6.532E 02	7.382	-42.15	206.16	14.51667	0.27089	2.10	1.670E 05
11	5.245E 02	-16.235	-43.17	206.38	15.98333	0.25879	1.79	1.316E 05
12	2.929E 02	-33.228	-38.09	205.23	17.48331	0.23833	1.45	8.022E 04
13	7.653E 01	-53.722	-36.00	204.75	18.96666	0.23121	1.28	1.700E 04
14	1.970E 00	-64.681	-20.38	201.63	20.51666	0.23076	1.11	3.884E 02
15	0.0	-50.164	7.82	200.18	20.64999	0.30436	1.20	0.0
16	0.0	-71.380	10.14	200.36	22.13332	0.34715	1.27	0.0

 ** ORBITAL FLUX STUDY WITH COMPOSITE PARTICLE ENVIRONMENTS: VETTES APS, AP6, AP7; AE4, AE5, FOR SOLAR MAXIMUM **** UNIFLX OF 1973 **
 ** ELECTRON FLUXES EXPONENTIALLY DECAYED TO 1970. 0 WITH LIFETIMES: E.G. STASSINOPOULOS P. VERZARIU ** CUTOFF TIMES: **
 ** MAGNETIC COORDINATES B AND L COMPUTED BY INVARA OF 1972 WITH ALLMAG, MODEL 4: CAINE-SWEENEY 120-TERM POGO 8/69 * TIME= 1974.0 **
 ** VEHICLE: SATS. ** INCLINATION= 60DEG ** PERIGEE= 200KM ** APOGEE= 200KM ** B/L ORBIT TAPE: TD7963 ** PERIOD= 1.475 **

***** ELECTRONS *****
 ** TABLE OF PEAK AND TOTAL FLUXES PER PERIOD : ENERGY >.500 MEV **

PERIOD NUMBER	PEAK FLUX ENCOUNTERED #/CM**2/SEC	POSITION AT WHICH ENCOUNTERED			ORBIT TIME (HOURS)	FIELD(B) (GAUSS)	LINE(L) (E.R.)	TOTAL FLUX PER ORBIT #/CM**2/ORBIT
		LONGITUDE (DEG)	LATITUDE (DEG)	ALTITUDE (KM)				
1	1.134E 05	-16.685	60.12	208.56	0.36667	0.46255	4.50	5.019E 07
2	9.875E 04	-18.786	58.54	207.18	1.88333	0.46092	4.17	3.341E 07
3	1.154E 05	67.797	-52.37	204.19	3.95000	0.44384	4.27	3.782E 07
4	1.673E 05	54.774	-55.88	205.79	5.45000	0.40328	4.35	4.925E 07
5	2.012E 05	43.409	-58.47	207.10	6.95000	0.37781	4.29	6.182E 07
6	2.363E 05	33.415	-59.90	208.07	8.45000	0.36041	4.68	9.711E 07
7	2.325E 05	31.716	-59.40	208.87	9.96667	0.35422	3.94	1.227E 08
8	1.277E 05	21.153	-57.42	208.88	11.46667	0.32674	3.34	5.211E 07
9	4.697E 02	27.469	-44.10	206.60	13.03333	0.28764	2.44	1.039E 05
10	2.434E 03	10.649	-39.08	205.47	14.53333	0.27012	2.03	5.416E 05
11	5.523E 03	-15.235	-43.17	206.38	15.98333	0.25879	1.79	1.093E 06
12	6.201E 03	-33.228	-38.09	205.23	17.48331	0.23833	1.45	8.104E 05
13	3.076E 03	73.404	60.11	208.66	18.03331	0.52644	3.09	4.684E 05
14	2.074E 04	48.290	60.05	208.77	19.50000	0.48890	3.19	1.027E 07
15	4.324E 04	15.550	59.24	209.62	20.95000	0.45702	3.35	1.795E 07
16	9.584E 04	-9.402	58.89	209.05	22.41664	0.45565	3.87	4.243E 07

Table 123

 ** ORBITAL FLUX STUDY WITH COMPOSITE PARTICLE ENVIRONMENTS: VETTES AP5, AP6, AP7; AE4, AL5, FOR SOLAR MAXIMUM **** UNIFLX OF 1973 **
 ** ELECTRON FLUXES EXPONENTIALLY DECAYED TO 1970. 0 WITH LIFETIMES: K.G. STASSINGPOULOS & P. VERZARIO ** CUTOFF TIMES: **
 ** MAGNETIC COORDINATES B AND L COMPUTED BY INVARA OF 1972 WITH ALLMAG. MODEL 4: CAINESWEEFENY 120-TERM POGO 8/69 * TIME= 1974.0 **
 ** VEHICLE : SATS ** INCLINATION= 90DEG ** PERIGEE= 200KM ** APOGEE= 200KM ** S/L ORBIT TAPE: TD7963 ** PERIOD= 1.475 **

***** LOW ENERGY PROTONS *****

** TABLE OF PEAK AND TOTAL FLUXES PER PERIOD : ENERGY >.100 MEV **

PERIOD NUMBER	PEAK FLUX ENCOUNTERED #/CM**2/SEC	POSITION AT WHICH ENCOUNTERED LONGITUDE LATITUDE ALTITUDE (DEG) (DEG) (KM)	ORBIT TIME (HOURS)	FIELD(B) (GAUSS)	LINE(L) (E.P.)	TOTAL FLUX PER ORBIT #/CM**2/ORBIT
1	2.574E 01	64.980 -60.42 208.60	0.98333	0.45686	6.32	2.680E 03
2	2.195E 05	42.669 -62.74 209.34	2.46667	0.39678	5.08	2.772E 07
3	2.291E 05	29.358 -65.07 210.04	3.95000	0.36751	4.29	4.224E 07
4	1.115E 05	-2.203 -71.45 211.79	5.45000	0.39165	4.36	1.929E 07
5	1.766E 04	-24.755 -77.82 213.21	6.95000	0.43829	5.06	1.990E 06
6	1.453E 03	-44.316 -35.45 199.86	8.25000	0.22936	1.32	3.881E 05
7	6.327E 01	-66.378 -33.70 199.27	9.71667	0.24038	1.22	8.169E 03
8	0.0	104.346 4.14 200.30	10.33333	0.37109	0.95	0.0
9	2.734E 03	63.735 -56.49 211.30	13.03333	0.43879	5.01	1.664E 05
10	2.481E 05	41.926 -62.26 212.62	14.48333	0.39196	4.93	2.994E 07
11	2.557E 05	20.116 -68.04 213.71	15.93333	0.38511	4.79	3.828E 07
12	1.321E 05	-1.693 -73.82 214.51	17.38332	0.40848	4.86	1.823E 07
13	3.158E 03	-25.508 -47.16 209.04	18.96666	0.26286	1.79	1.138E 06
14	1.221E 03	-48.320 -36.69 206.25	20.48331	0.23079	1.32	3.212E 05
15	5.764E 06	-70.882 -30.27 204.65	21.98331	0.24180	1.17	5.400E 02
16	0.0	-71.138 6.54 200.66	22.13332	0.32747	1.21	0.0

Table 124

 ** ORBITAL FLUX STUDY WITH COMPOSITE PARTICLE ENVIRONMENTS: VETTES AP6, AP7; AE4, A65, FOR SOLAR MAXIMUM **** UNIFLX OF 1973 **
 ** FLECTION FLUXES (XRON INITIALLY DECAYED TO 1975.0 WITH LIFETIMES: C.G.STASSINOPOULOS6P,VFFZARIU ** CUTOFF TIMES: **
 ** MAGNETIC COORDINATES B AND L COMPUTED BY INVARA OF 1972 WITH ALLMAG. MODEL 4: CAINSWHEENY 120-TERM POGO 8/69 * TIME= 1974.0 **
 ** VEHICLE: SATS ** INCLINATION= 905FG ** PERIGEE= 200KM ** APOGEE= 200KM ** B/L ORBIT TAPE: TD7963 ** PERIOD= 1.475 **

***** HIGH ENERGY PROTONS *****
 ** TABLE OF PEAK AND TOTAL FLUXES PER PERIOD : ENERGY >5.00 MEV **

PERIOD NUMBER	PEAK FLUX COUNT PER #/CM**2/SEC	POSITION AT WHICH ENCOUNTERED LONGITUDE LATITUDE ALTITUDE (DEG) (DEG) (KM)	ORBIT TIME (HOURS)	FIELD(B) (GAUSS)	LINE(L) (E.R.)	TOTAL FLUX PER ORBIT #/CM**2/ORBIT
1	0.0	-100.480 4.09 200.08	0.31667	0.31277	1.08	0.0
2	0.0	-122.540 2.35 200.06	1.48333	0.30012	1.04	0.0
3	3.912 02	21.862 -40.67 201.70	3.85000	0.27753	2.19	4.952E 04
4	6.3950 02	-0.448 -43.01 202.51	5.33333	0.26833	2.03	1.182E 05
5	3.592 02	-22.759 -45.34 203.33	6.81667	0.25978	1.77	9.332E 04
6	2.0700 02	-44.318 -35.45 199.86	8.25000	0.22936	1.32	3.861E 04
7	2.2550 02	-65.877 -25.53 196.81	9.68333	0.23108	1.14	3.448E 02
8	0.0	104.346 4.14 200.30	10.33333	0.37100	0.95	0.0
9	0.0	82.286 2.40 200.28	11.80000	0.36608	0.97	0.0
10	2.4580 02	40.422 -37.88 206.42	14.58333	0.29852	2.15	1.474E 02
11	4.8650 02	18.362 -39.62 206.93	16.04999	0.27409	2.11	6.450E 04
12	6.3550 02	-3.448 -45.43 208.54	17.50000	0.27006	2.08	1.255E 05
13	3.3760 02	-25.759 -43.10 207.94	18.98331	0.25244	1.66	9.718E 04
14	1.7710 02	-48.320 -36.89 206.25	20.48331	0.23079	1.32	2.978E 04
15	0.0	-50.827 4.19 200.52	20.64999	0.28844	1.17	0.0
16	0.0	-73.138 6.54 200.66	22.13332	0.32747	1.21	0.0

 ** ORBITAL FLUX STUDY WITH COMPOSITE PARTICLE ENVIRONMENTS: VETTES AP5, AP6, AP7; AE4, AE5, FOR SOLAR MAXIMUM *** UNIFLX OF 1973 **
 ** ELECTRON FLUXES EXPONENTIALLY DECAYED TO 1970. 0 WITH LIFETIMES: E.G. STASSINOPoulos & P. VERZARIO ** CUTOFF TIMES: **
 ** MAGNETIC COORDINATES B AND L COMPUTED BY INVARA OF 1972 WITH ALLMAG. MODEL 4: CAINESWEELEY 120-TERM POGO 8/69 * TIME = 1974.0 **
 ** VEHICLE : SATS ** INCLINATION = 90 DEG ** PERIGEE = 200 KM ** APOGEE = 200 KM ** B/L ORBIT TAPE: TD7963 ** PERIOD = 1.476 **

 ** TABLE OF PEAK AND TOTAL FLUXES PER PERIOD : ENERGY > .500 MEV **

PERIOD NUMBER	PEAK FLUX ENCOUNTERED #/CM**2/SEC	POSITION AT WHICH ENCOUNTERED LONGITUDE LATITUDE ALTITUDE (DEG) (DEG) (KM)	ORBIT TIME (HOURS)	FIELD(B) (GAUSS)	LINE(L) (E.R.)	TOTAL FLUX PER ORBIT #/CM**2/ORBIT
1	1.321E 05	65.482 -52.29 205.85	0.95000	0.43325	4.14	3.253E 07
2	2.413E 05	42.920 -58.68 208.03	2.45000	0.37734	4.30	5.430E 07
3	2.172E 05	20.353 -65.07 210.04	3.95000	0.36751	4.29	6.387E 07
4	1.833E 05	-2.203 -71.45 211.79	5.45000	0.39165	4.36	5.474E 07
5	1.698E 05	-24.514 -73.77 212.35	6.93333	0.40348	4.08	3.964E 07
6	1.238E 05	-46.825 -76.09 212.87	8.41667	0.43749	4.22	2.946E 07
7	9.121E 04	-68.885 -74.36 212.50	9.88333	0.44957	3.79	2.258E 07
8	6.426E 04	-90.945 -72.63 212.11	11.35000	0.47385	3.73	2.037E 07
9	1.470E 05	63.485 -52.42 210.29	13.05000	0.42432	4.08	3.531E 07
10	2.162E 05	41.675 -58.21 211.73	14.50000	0.37111	4.17	5.199E 07
11	2.348E 05	19.866 -63.99 212.99	15.95000	0.36008	4.11	6.204E 07
12	2.079E 05	-1.944 -69.77 214.00	17.39999	0.37969	4.08	5.316E 07
13	1.571E 05	-23.754 -75.54 214.71	18.84999	0.42093	4.49	4.075E 07
14	1.267E 05	-45.814 -77.27 214.87	20.31667	0.44433	4.53	3.097E 07
15	1.268E 05	-68.125 -74.95 214.70	21.79999	0.45152	3.92	2.368E 07
16	6.449E 04	-90.436 -72.63 214.48	23.28331	0.47246	3.72	2.024E 07

Table 126

 ** CRITICAL FLUX STUDY WITH COMPOSITE PARTICLE ENVIRONMENTS: VETTES APS, AP6, AP7; AP4, AP5, FOR SOLAR MAXIMUM **** UNIFLX OF 1973 **
 ** ELECTRON FLUXES EXPONENTIALLY DECAYING TO 1970, 0 WITH LIFETIMES: P.G. STASSINOPoulos & P. VEFZARIU ** CUTOFF TIMES: **
 ** MAGNETIC COORDINATES B AND L COMPUTED BY INVARA OF 1972 WITH ALLMAG. MODEL 4: CAINESWELNEY 120-TERM POGO 8/69 * TIME= 1974.0 **
 ** VEHICLE: SATS ** INCLINATION= 0 DEG ** PERIGEE= 400KM ** APOGEE= 400KM ** B/L ORBIT TAPE: TD6794 ** PERIOD= 1.543 **

 ***** LOW ENRGY PROTONS *****
 ** TABLE OF PEAK AND TOTAL FLUXES PER PERIOD : ENERGY > 100 MEV **

PERIOD NUMBER	PEAK FLUX ENCOUNTERED #/CM**2/SEC	POSITION AT WHICH ENCOUNTERED LONGITUDE LATITUDE ALTITUDE (DEG) (DEG) (KM)	ORBIT TIME (HOURS)	FIELD(B) (GAUSS)	LINE(L) (E.P.)	TOTAL FLUX PER ORBIT #/CM**2/ORBIT
1	1.163E 01	-45.653 -0.00 395.36	0.25000	0.23911	1.16	2.274E 03
2	9.719E 00	-44.838 -0.00 391.27	1.90000	0.23839	1.15	1.901E 03
3	7.904E 00	-42.990 -0.00 386.97	3.55000	0.23773	1.14	1.541E 03
4	6.683E 00	-41.612 -0.00 383.32	5.20000	0.23707	1.14	1.405E 03
5	7.213E 00	-41.871 -0.00 381.26	6.83333	0.23607	1.15	1.295E 03
6	5.698E 00	-42.463 -0.00 380.49	8.48333	0.23801	1.14	1.204E 03
7	5.674E 00	-41.850 -0.00 381.63	10.13333	0.23684	1.14	1.259E 03
8	7.585E 00	-43.313 -0.00 383.95	11.76667	0.23832	1.15	1.418E 03
9	7.776E 00	-41.940 -0.00 387.79	13.41667	0.23683	1.14	1.721E 03
10	9.448E 00	-44.247 -0.00 391.46	15.05000	0.23829	1.15	1.921E 03
11	1.072E 01	-42.634 -0.00 395.53	16.70000	0.23678	1.15	2.371E 03
12	1.383E 01	-45.248 -0.00 398.18	18.33331	0.23848	1.16	2.538E 03
13	1.327E 01	-44.716 -0.00 399.85	19.98331	0.23721	1.15	2.608E 03
14	1.546E 01	-25.823 0.00 399.87	20.06667	0.23158	1.10	2.396E 02
15	1.377E 01	-46.790 0.00 399.80	21.61664	0.23931	1.16	2.601E 03

 ** ORBITAL FLUX STUDY WITH COMPOSITE PARTICLE ENVIRONMENTS: VETTES AP5, AP6, AP7; AE4, AE5, FOR SOLAR MAXIMUM **** UNIFLX OF 1973 **
 ** ELECTRON FLUXES EXPONENTIALLY DECAIED TO 1970.0 WITH LIFETIMES: E.G. STASSINOPOULOS & P. VERZARIU ** CUTOFF TIMES: **
 ** MAGNETIC COORDINATES B AND L COMPUTED BY INVARA OF 1972 WITH ALLMAG, MODEL 4; CAINGSWEEFNY 120-TERM PDGD 8/69 * TIME= 1974.0 **
 ** VEHICLE: SATS ** INCLINATION= 0 DEG ** PERIGEE= 400 KM ** APOGEE= 400 KM ** B/L ORBIT TAPE: TD6794 ** PERIOD= 1.543 **

***** HIGH ENERGY PROTONS *****
 ** TABLE OF PEAK AND TOTAL FLUXES PER PERIOD : ENERGY > 5.00 MEV **

PERIOD NUMBER	PEAK FLUX ENCOUNTERED #/CM**2/SEC	POSITION AT WHICH ENCOUNTERED LONGITUDE (DEG)	LATITUDE (DEG)	ALTITUDE (KM)	ORBIT TIME (HOURS)	FIELD(B) (GAUSS)	LINE(L) (E.R.)	TOTAL FLUX PER ORBIT #/CM**2/ORBIT
1	1.732E 00	-34.718	-0.00	393.57	0.30000	0.23230	1.12	4.265E 02
2	1.682E 00	-33.388	-0.00	389.28	1.95000	0.23240	1.11	3.335E 02
3	1.523E 00	-32.026	-0.00	385.18	3.60000	0.23260	1.11	3.072E 02
4	1.404E 00	-30.636	-0.00	382.06	5.25000	0.23283	1.11	2.347E 02
5	1.343E 00	-32.889	-0.00	380.67	6.88333	0.23321	1.11	2.231E 02
6	1.347E 00	-31.477	-0.00	380.78	8.53333	0.23301	1.11	2.870E 02
7	1.365E 00	-30.073	-0.00	382.74	10.18333	0.23276	1.11	2.314E 02
8	1.481E 00	-32.344	-0.00	385.59	11.81667	0.23260	1.11	3.117E 02
9	1.645E 00	-30.986	-0.00	389.76	13.46667	0.23202	1.11	3.415E 02
10	1.825E 00	-33.305	-0.00	393.40	15.10000	0.23194	1.11	4.389E 02
11	1.891E 00	-32.005	-0.00	397.08	16.75000	0.23134	1.11	4.607E 02
12	1.972E 00	-34.367	-0.00	399.17	18.38332	0.23161	1.12	5.440E 02
13	2.050E 00	-33.100	-0.00	400.00	20.03331	0.23121	1.11	4.182E 02
14	1.464E 00	-25.823	0.00	399.87	20.06667	0.23158	1.10	7.653E 01
15	1.950E 00	-31.832	0.00	398.92	21.68330	0.23112	1.11	5.373E 02

Table 128

 ** ORBITAL FLUX STUDY WITH COMPOSITE PARTICLE ENVIRONMENTS: VETTES AP5, AP6, AP7; AE4, AE5, FOR SOLAR MAXIMUM **** UNIFLX OF 1973 **
 ** ELECTRON FLUXES EXPONENTIALLY DECAYED TO 1970. 0 WITH LIFETIMES: E.G. STASSINOPOLUS & VERZARIU ** CUTOFF TIMES: --- **
 ** MAGNETIC COORDINATES B AND L COMPUTED BY INVARA OF 1972 WITH ALLMAG, MODEL 4: CAIN & SWEENEY 120-TERM POGO 8/69 * TIME= 1974.0 **
 ** VEHICLE : SATS ** INCLINATION= 0DEG ** PERIGEE= 400KM ** APOGEE= 460KM ** B/L ORBIT TYPE: TD6794 ** PERIOD= 1.543 **

 ***** ELECTRONS *****
 ** TABLE OF PEAK AND TOTAL FLUXES PER PERIOD : ENERGY >.500 MEV **

PERIOD NUMBER	PEAK FLUX ENCOUNTERED #/CM**2/SEC	POSITION AT WHICH ENCOUNTERED			ORBIT TIME	FIELD(B)	LINE(L)	TOTAL FLUX PER ORBIT #/CM**2/ORBIT
		LONGITUDE (DEG)	LATITUDE (DEG)	ALTITUDE (KM)	(HOURS)	(GAUSS)	(E.R.)	
1	1.790E 00	-31.071	-0.00	392.94	0.31667	0.23169	1.11	3.466E 02
2	1.527E 00	-29.737	-0.00	388.62	1.96667	0.23214	1.11	2.547E 02
3	1.483E 00	-32.026	-0.00	385.18	3.60000	0.23260	1.11	2.350E 02
4	1.393E 00	-39.636	-0.00	382.06	5.25000	0.23283	1.11	1.538E 02
5	1.263E 00	-29.228	-0.00	380.56	6.90000	0.23303	1.10	2.091E 02
6	1.273E 00	-31.477	-0.00	380.78	8.53333	0.23301	1.11	1.480E 02
7	1.355E 00	-30.073	-0.00	382.74	10.18333	0.23276	1.11	2.186E 02
8	1.427E 00	-28.689	-0.00	386.19	11.83333	0.23248	1.10	2.378E 02
9	1.707E 00	-30.986	-0.00	389.76	13.46667	0.23202	1.11	3.267E 02
10	1.747E 00	-29.660	-0.00	394.02	15.11667	0.23156	1.11	3.587E 02
11	2.012E 00	-32.005	-0.00	397.08	16.75000	0.23134	1.11	4.522E 02
12	2.035E 00	-30.728	-0.00	399.41	18.39999	0.23099	1.11	4.204E 02
13	2.174E 00	-33.100	-0.00	400.00	20.03331	0.23121	1.11	4.075E 02
14	1.892E 00	-25.823	0.00	399.87	20.06667	0.23158	1.10	7.639E 01
15	2.101E 00	-31.632	0.00	398.92	21.68330	0.23112	1.11	4.706E 02

Table 129

 ** ORBITAL FLUX STUDY WITH COMPOSITE PARTICLE ENVIRONMENTS: VETTES AP5, AP6, AP7; AE4, AE5, FOR SOLAR MAXIMUM *** UNIFLX OF 1973 **
 ** ELECTRON FLUXES EXPONENTIALLY DECAYED TO 1970-0 WITH LIFETIMES: EUGEN STASSINOPoulos & VERZARU ** CUTOFF TIMES: **
 ** MAGNETIC COORDINATES B AND L COMPUTED BY INVARA OF 1972 WITH ALLMAG, MODEL 4: CAINE SWEENEY 120-TERM POGO 8/69 * TIME= 1974.0 **
 ** VEHICLE : SATS ** INCLINATION= 30DEG ** PERIGEE= 400KM ** APOGEE= 400KM ** S/L ORBIT TYPE: TD6790 ** PERIOD= 1.543 **

***** LOW ENERGY PROTONS *****

** TABLE OF PEAK AND TOTAL FLUXES PER PERIOD : ENERGY > 100 MEV **

PERIOD NUMBER	PEAK FLUX ENCOUNTERED #/CM**2/SEC	POSITION AT WHICH ENCOUNTERED LONGITUDE LATITUDE ALTITUDE (DEG) (DEG) (KM)	ORBIT TIME (HOURS)	FIELD(B) (GAUSS)	LINE(L) (E.O.)	TOTAL FLUX PER ORBIT #/CM**2/ORBIT
1	0.0	-97.141 1.94 400.00	0.01667	0.27586	1.11	0.0
2	0.0	-121.476 1.47 399.96	1.55000	0.27071	1.07	0.0
3	0.0	-142.689 2.94 399.94	3.10000	0.27232	1.06	0.0
4	0.0	-167.025 2.46 399.90	4.63333	0.27731	1.04	0.0
5	9.705E 02	32.222 -27.16 392.02	7.20000	0.26490	1.67	3.095E 05
6	3.404E 03	15.802 -28.52 393.16	8.76667	0.25396	1.70	2.343E 06
7	5.354E 03	8.008 -29.74 395.39	10.36667	0.24786	1.71	4.146E 06
8	5.480E 03	-3.889 -29.62 396.67	11.95000	0.23805	1.61	4.556E 06
9	6.075E 03	-36.570 -29.96 395.48	13.45000	0.21020	1.31	4.102E 06
10	4.995E 03	-32.475 -26.69 398.01	15.10000	0.21116	1.29	3.184E 06
11	3.895E 03	-45.376 -23.61 398.47	16.66330	0.20280	1.20	2.332E 06
12	1.463E 02	-62.456 -21.23 398.60	18.25000	0.20778	1.15	8.540E 04
13	4.666E 01	-53.503 -4.21 399.18	19.95000	0.23232	1.16	1.544E 04
14	0.0	-31.518 -9.26 399.83	20.66667	0.25697	1.13	0.0
15	0.0	-55.873 8.81 399.78	21.59999	0.28592	1.29	0.0

Table 130

 ** ORBITAL FLUX STUDY WITH COMPOSITE PARTICLE ENVIRONMENTS: VLTIS AP5, AP6, AP7; AE4, AE5, FOR SOLAR MAXIMUM **** UNIFLX OF 1973 **
 ** ELECTRON FLUXES EXPONENTIALLY DECAYED TO 1970.0 WITH LIFETIMES: E.G. STASSINOPOULOS, VERZARIU ** CUTOFF TIMES: **
 ** MAGNETIC COORDINATES B AND L COMPUTED BY INVAPA OF 1972 WITH ALLMAG, MOLEL 4: CAINSWFENNY 120-TERM PDGO 8/69 * TIME= 1974.0 **
 ** VEHICLE: SATS ** INCLINATION= 30DEG ** PERIGEE= 400KM ** APOGEE= 400KM ** B/L ORBIT TAPE: TD6794 ** PERIOD= 1.543 **

 ***** HIGH ENERGY PROTONS *****
 ** TABLE OF PEAK AND TOTAL FLUXES PER PERIOD : ENERGY >5.00 MEV **

PERIOD NUMBER	PEAK FLUX ENCOUNTERED #/CM**2/SEC	POSITION AT WHICH ENCOUNTERED			ORBIT TIME (HOURS)	FIELD(B) (GAUSS)	LINE(L) (E.P.)	TOTAL FLUX PER ORBIT #/CM**2/ORBIT
		LONGITUDE (DEG)	LATITUDE (DEG)	ALTITUDE (KM)				
1	0.0	-97.141	1.94	400.00	0.01667	0.27586	1.11	0.0
2	0.0	-121.476	1.47	399.96	1.55000	0.27071	1.07	0.0
3	0.0	-142.689	2.94	399.94	3.10000	0.27232	1.06	0.0
4	0.0	-167.025	2.46	399.90	4.63333	0.27731	1.04	0.0
5	4.902E 01	32.222	-27.16	392.02	7.20000	0.26490	1.07	1.660E 04
6	4.531E 02	24.150	-29.54	394.45	8.80000	0.25757	1.76	2.835E 05
7	9.810E 02	-4.640	-28.97	393.58	10.31667	0.23768	1.59	7.444E 05
8	1.401E 03	-16.605	-29.91	395.16	11.90000	0.22671	1.49	9.616E 05
9	1.597E 03	-36.970	-29.96	395.48	13.45000	0.21020	1.31	8.786E 05
10	1.215E 03	-32.475	-26.69	398.01	15.10000	0.21116	1.29	5.570E 05
11	8.168E 02	-49.132	-24.83	398.29	16.56666	0.20246	1.20	3.379E 05
12	7.611E 01	-58.863	-19.75	398.71	18.26666	0.20606	1.15	3.690E 04
13	1.064E 01	-63.025	-9.91	398.99	19.89999	0.22377	1.14	3.301E 03
14	0.0	-31.518	9.26	399.83	20.06667	0.25697	1.13	0.0
15	0.0	-55.873	8.81	399.78	21.59999	0.28592	1.29	0.0

 ** ORBITAL FLUX STUDY WITH COMPOSITE PARTICLE ENVIRONMENTS: VETTES APS, AP6, AP7; AF4, AF5, FOR SOLAR MAXIMUM *** UNIFLX OF 1973 **
 ** ELECTRON FLUXES EXPONENTIALLY DECAYED TO 1970, 0 WITH LIFETIMES: F.G.STASSINPOULOS&P.VERZARIO ** CUTOFF TIMES: **
 ** MAGNETIC COORDINATES B AND L COMPUTED BY INVARA OF 1972 WITH ALLMAG, MODEL 4: CAINESWENEY 120-TERM POGO 8/69 * TIME= 1974.0 **
 ** VEHICLE : SATS ** INCLINATION= 30DEG ** PERIGEE= 400KM ** APOGEE= 400KM ** B/L ORBIT TAPE: TD6794 ** PERIOD= 1.543 **

 ***** ELECTRONS *****
 ** TABLE OF PEAK AND TOTAL FLUXES PER PERIOD : ENERGY >.500 MEV **

PERIOD NUMBER	PEAK FLUX ENCOUNTERED #/CM**2/SEC	POSITION AT WHICH ENCOUNTERED			ORBIT TIME	FIELD(B)	LINE(L)	TOTAL FLUX PER ORBIT #/CM**2/ORBIT
		LONGITUDE (DEG)	LATITUDE (DEG)	ALTITUDE (KM)	(HOURS)	(GAUSS)	(E.R.)	
1	0.0	-97.141	1.94	400.00	0.01667	0.27586	1.11	0.0
2	0.0	-121.476	1.47	399.96	1.55000	0.27071	1.07	0.0
3	0.0	-142.639	0.94	399.94	3.10000	0.27232	1.06	0.0
4	0.0	-167.025	2.46	399.90	4.63333	0.27731	1.04	0.0
5	2.199E 00	-20.386	-3.70	384.03	6.95000	0.23092	1.12	3.119E 02
6	6.725E 03	15.802	-28.52	393.16	8.76667	0.25396	1.70	2.990E 06
7	7.035E 04	-12.865	-27.60	392.23	10.28333	0.22988	1.48	1.922E 07
8	1.321E 05	-20.842	-29.70	394.58	11.88333	0.22291	1.44	3.662E 07
9	1.211E 05	-24.277	-29.33	396.88	13.50000	0.21952	1.40	4.066E 07
10	1.606E 04	-32.475	-26.69	398.01	15.10000	0.21116	1.29	5.825E 06
11	3.258E 03	-49.182	-24.83	398.29	16.66664	0.20246	1.20	1.038E 06
12	3.269E 02	-58.863	-19.75	398.71	18.26666	0.20606	1.15	1.269E 05
13	1.608E 01	-66.268	-11.74	398.94	19.88332	0.22216	1.13	4.260E 03
14	0.0	-31.518	9.26	399.83	20.06667	0.25697	1.13	0.0
15	0.0	-55.873	8.81	399.78	21.59999	0.28592	1.29	0.0

Table 132

** ORBITAL FLUX STUDY WITH COMPOSITE PARTICLE ENVIRONMENTS: VETTES AP5, AP6, AP7; AE4, AES, FOR SOLAR MAXIMUM **** UNIFLX OF 1973 **
 ** ELECTRON FLUXES EXPONENTIALLY DECAYED TO 1970. 0 WITH LIFETIMES: E.G. STASSINOPOULOS & P. VERZARIU ** CUTOFF TIMES: **
 ** MAGNETIC COORDINATES B AND L COMPUTED BY INVARA OF 1972 WITH ALLMAG. MODEL 4: CAINE SWEENEY 120-TERM POGO 8/69 * TIME= 1974.0 **
 ** VEHICLE: SATS ** INCLINATION= 600EG ** PERIGEE= 400KM ** APOGEE= 400KM ** B/L ORBIT TAPE: TD6794 ** PERIOD= 1.543 **
 ** *****
 ** LOW ENERGY PROTONS **
 ** TABLE OF PEAK AND TOTAL FLUXES PER PERIOD: ENRGY >.100 MEV **
 ** *****

PERIOD NUMBER	PEAK FLUX ENCOUNTERED #/CM**2/S+ C	POSITION AT WHICH ENCOUNTERED LONGITUDE LATITUDE ALTITUDE (DEG) (DEG) (KM)	ORBIT TIME (HOURS)	FIELD(B) (GAUSS)	LINE(L) (E.R.)	TOTAL FLUX PER ORBIT #/CM**2/ORBIT
1	2.857E 04	-31.779 58.95 409.16	0.35000	0.43908	5.14	2.290E 06
2	6.611E 04	-28.628 59.48 408.13	1.95000	0.43703	5.09	4.630E 06
3	9.612E 04	70.738 -54.49 405.49	4.15000	0.42258	5.14	1.084E 07
4	3.017E 05	50.666 -55.60 406.60	5.70000	0.35852	4.28	6.434E 07
5	4.924E 05	44.185 -59.12 407.84	7.28333	0.35405	4.63	1.089E 08
6	5.536E 05	39.991 -59.87 408.88	8.86666	0.34724	4.56	1.661E 08
7	1.664E 05	34.943 -57.64 409.10	10.45000	0.32687	3.98	6.525E 07
8	1.147E 05	26.640 -52.99 408.53	12.03333	0.29309	3.19	5.306E 07
9	9.070E 04	6.140 -51.67 408.29	13.58333	0.26830	2.65	3.974E 07
10	2.183E 04	-10.253 -47.77 407.53	15.15000	0.25021	2.13	1.058E 07
11	9.995E 03	-27.734 -43.46 406.59	16.71666	0.23375	1.69	4.729E 06
12	6.272E 03	-38.250 -29.57 403.46	18.33331	0.20848	1.30	2.674E 06
13	3.069E 03	-60.335 -27.69 403.06	19.88332	0.20716	1.20	6.200E 05
14	4.180E 01	-82.471 -25.79 402.67	21.43330	0.23525	1.17	4.800E 03
15	0.0	-64.382 7.56 400.18	21.59999	0.29089	1.29	0.0

 ** ORBITAL FLUX STUDY WITH COMPOSITE PARTICLE ENVIRONMENTS: VETTES AP5, AP6, AP7; AF4, AES, FOR SOLAR MAXIMUM *** UNIFLX OF 1973 **
 ** ELECTRON FLUXES EXPONENTIALLY DECAYED TO 1970. 0 WITH LIFETIMES: E.G. STASSINOPOULOS & P. VERZARIU ** CUTOFF TIMES: **
 ** MAGNETIC COORDINATES B AND L COMPUTED BY INVIRA OF 1972 WITH ALLMAG, MODEL 4: CAINE SHEENEY 120-TERM POGO 8/69 * TIME= 1974.0 **
 ** VEHICLE : SATS ** INCLINATION= 60DEG ** PERIGEE= 400KM ** APOGEE= 400KM ** R/L ORBIT TAPE: TD6794 ** PERIOD= 1.503 **

***** HIGH ENERGY PROTONS *****
 ** TABLE OF PEAK AND TOTAL FLUXES PER PERIOD : ENERGY >5.00 MEV **

PERIOD NUMBER	PEAK FLUX ENCOUNTERED #/CM**2/SEC	POSITION AT WHICH ENCOUNTERED LONGITUDE (DEG)	LATITUDE (DEG)	ALTITUDE (KM)	ORBIT TIME (HOURS)	FIELD(B) (GAUSS)	LINE(L) (E.R.)	TOTAL FLUX PER ORBIT #/CM**2/ORBIT
1	0.0	-98.564	3.37	400.05	0.01667	0.28090	1.12	0.0
2	0.0	-122.687	1.98	400.01	1.55000	0.27162	1.07	0.0
3	9.512E 01	40.646	-32.94	396.72	4.01667	0.27628	1.92	1.367E 04
4	2.604E 03	21.493	-37.82	398.53	5.68333	0.25453	2.11	4.640E 05
5	3.114E 03	-3.194	-39.59	399.22	7.13333	0.24310	1.96	9.930E 05
6	3.691E 03	-18.414	-44.17	401.06	8.70000	0.23957	1.85	1.242E 06
7	1.450E 03	-31.316	-50.90	403.89	10.28333	0.25508	1.91	7.304E 05
8	1.985E 02	-34.584	-57.75	407.04	11.88333	0.28585	2.21	4.392E 04
9	1.686E 03	24.869	-38.15	405.40	13.66667	0.25691	2.15	5.245E 05
10	3.214E 03	-2.922	-42.29	406.34	15.18333	0.24377	2.03	1.359E 06
11	2.592E 03	-27.734	-43.46	406.59	16.71666	0.23375	1.69	1.079E 06
12	1.735E 03	-38.250	-29.57	403.46	18.33331	0.20848	1.30	5.906E 05
13	4.845E 02	-60.335	-27.69	403.06	19.88332	0.20716	1.20	1.035E 05
14	5.557E 02	-78.404	-19.25	401.60	21.46666	0.22553	1.12	1.054E 03
15	0.0	-64.382	7.56	400.18	21.59999	0.29089	1.29	0.0

Table 134

 ** ORBITAL FLUX STUDY WITH COMPOSITE PARTICLE ENVIRONMENTS: VETTE'S AP5, AP6, AP7; AE4, AE5, FOR SOLAR MAXIMUM *** UNIFLX OF 1973 **
 ** ELECTRON FLUXES EXPONENTIALLY DECAYED TO 1970. 0 WITH LIFETIMES: E.G. STASSINOPoulos6P, VERZARIU ** CUTOFF TIMES: **
 ** MAGNETIC COORDINATES B AND L COMPUTED BY INVARA OF 1972 WITH ALLMAG. MODEL 4: CAINESWFFNEY 120-TERM POGO 8/69 * TIME= 1974.0 **
 ** VEHICLE : SATS ** INCLINATION= 60DEG ** PERIGEE= 400KM ** APOGEE= 400KM ** B/L ORBIT TAPE: TD6794 ** PERIOD= 1.543 **

 ** TABLE OF PEAK AND TOTAL FLUXES PER PERIOD : ENERGY >.500 MEV **

PERIOD NUMBER	PEAK FLUX ENCOUNTERED #/CM**2/SEC	POSITION AT WHICH ENCOUNTERED LONGITUDE (DEG)	LATITUDE (DEG)	ALTITUDE (KM)	ORBIT TIME (HOURS)	FIELD(B) (GAUSS)	LINE(L) (E.P.)	TOTAL FLUX PER ORBIT #/CM**2/ORBIT
1	1.424E 05	-17.655	59.96	408.78	0.38333	0.42857	4.53	9.860E 07
2	1.358E 05	-21.496	58.60	407.56	1.96667	0.42894	4.38	6.352E 07
3	1.723E 05	65.486	-52.38	404.55	4.13333	0.39876	4.32	6.764E 07
4	2.331E 05	50.666	-55.60	406.00	5.70000	0.35852	4.28	8.271E 07
5	2.785E 05	37.243	-58.06	407.21	7.26667	0.37365	4.13	1.207E 08
6	2.761E 05	32.475	-59.94	408.58	8.85000	0.33248	4.22	1.955E 08
7	2.902E 05	34.943	-57.64	409.10	10.45000	0.32587	3.98	1.908E 08
8	1.380E 05	15.284	-56.77	409.03	12.00000	0.29431	3.26	5.439E 07
9	8.284E 03	27.642	-35.11	404.71	13.68333	0.25796	2.01	1.791E 06
10	2.308E 04	5.745	-33.28	404.29	15.23333	0.24444	1.81	7.564E 06
11	9.648E 04	-13.894	-28.26	403.19	16.79999	0.22802	1.48	3.110E 07
12	1.304E 05	-46.089	-38.85	405.54	18.28331	0.21909	1.40	2.786E 07
13	3.217E 04	-152.073	-57.68	406.98	19.58331	0.48708	3.38	1.399E 07
14	7.086E 04	-157.089	-59.87	408.42	21.16664	0.50044	4.02	4.266E 07
15	9.793E 04	2.023	59.17	409.20	21.91664	0.42027	3.66	5.911E 07

 ** ORBITAL FLUX STUDY WITH COMPOSITE PARTICLE ENVIRONMENTS: VETTES AP5, AP6, AP7; AE4, AE5, FOR SOLAR MAXIMUM **** UNIFLX OF 1973 **
 ** ELECTRON FLUXES-EXPONENTIALLY DECAYED TO 1970, 0 WITH LIFETIMES: F.G. STASSINOPOULOS & P. VERZARIU ** CUTOFF TIMES: **
 ** MAGNETIC COORDINATES B AND L COMPUTED BY INVARA OF 1972 WITH ALLMAG. MODEL 4: CAINCSEWENEY 120-TERM POGO 8/69 * TIME= 1974.0 **
 ** VEHICLE : --- SATS --- ** INCLINATION= 90DEG ** PERIGEE= -400KM ** APOGEE= -400KM ** B/L ORBIT TAPE: TD6794 ** PERIOD= 1.543 **

***** LOW-ENERGY PROTONS *****

** TABLE OF PEAK AND TOTAL FLUXES PER PERIOD : ENRGY >.100 MEV **

PERIOD NUMBER	PEAK FLUX ENCOUNTERED #/CM**2/SFC	POSITION AT WHICH ENCOUNTERED LONGITUDE (DEG)	LATITUDE (DEG)	ALTITUDE (KM)	ORBIT TIME (HOURS)	FIELD(B) (GAUSS)	LINE(L) (E.R.)	TOTAL FLUX PER ORBIT #/CM**2/ORBIT
1	1.271E 05	64.448	-57.47	407.91	1.01667	0.40783	5.56	1.415E 07
2	6.473E 05	41.134	-59.44	408.56	2.56667	0.34805	4.54	7.365E 07
3	5.242E 05	17.570	-65.31	410.37	4.13333	0.33872	4.39	1.060E 08
4	3.185E 05	-5.994	-71.17	411.97	5.70000	0.35990	4.35	6.230E 07
5	1.900E 05	-29.559	-77.03	413.28	7.26667	0.39965	4.95	2.313E 07
6	8.946E 04	-52.872	-79.00	413.65	8.81667	0.42264	5.23	7.211E 06
7	6.707E 02	-72.927	-30.35	398.47	10.15000	0.22558	1.21	1.109E 05
8	1.934E 04	77.743	-54.27	410.85	12.10000	0.44574	5.59	1.162E 06
9	3.782E 05	54.680	-55.19	411.36	13.63333	0.37203	4.60	3.887E 07
10	6.229E 05	31.868	-62.00	412.70	15.15000	0.34064	4.53	9.508E 07
11	4.787E 05	9.055	-67.81	413.81	16.66664	0.34542	4.41	9.109E 07
12	3.195E 05	-13.757	-73.62	414.64	18.18330	0.37459	4.57	4.783E 07
13	1.671E 05	-36.820	-75.54	414.86	19.71666	0.39281	4.41	2.277E 07
14	3.747E 04	-59.883	-77.47	415.04	21.25000	0.41902	4.72	2.917E 06
15	1.613E 04	-82.946	-79.39	415.18	22.78331	0.44729	5.60	6.085E 05

Table 136

 ** ORBITAL FLUX STUDY WITH COMPOSITE PARTICLE ENVIRONMENTS: VETTES AP5, AP6, AP7; AE4, AF5, FOR SOLAR MAXIMUM *** UNIFLX OF 1973 **
 ** ELECTRON FLUXES EXPONENTIALLY DECAYED TO 1970. 0 WITH LIFETIMES: E.G. STASSINOPOULOS & P. VERZARIU ** CUTOFF TIMES: **
 ** MAGNETIC COORDINATES B AND L COMPUTED BY INVARA OF 1972 WITH ALLMAG, MODEL 4: CAINESWENEY 120-TERM POGO 8/69 * TIME= 1974.0 **
 ** VEHICLE: SATS ** INCLINATION= 93DEG ** PERIGEE= 400KM ** APOGEE= 400KM ** B/L ORBIT TAPE: TD6794 ** PERIOD= -1.543 **

***** HIGH ENERGY PROTONS *****

** TABLE OF PEAK AND TOTAL FLUXES PER PERIOD : ENERGY >5.00 MEV **

PERIOD NUMBER	PEAK FLUX ENCOUNTERED #/CM**2/SEC	POSITION AT WHICH ENCOUNTERED			ORBIT TIME (HOURS)	FIELD(B) (GAUSS)	LINE(L) (E.P.)	TOTAL FLUX PER ORBIT #/CM**2/ORBIT
		LONGITUDE (DEG)	LATITUDE (DEG)	ALTITUDE (KM)				
1	0.0	-100.511	3.89	400.08	0.01667	0.28241	1.12	0.0
2	9.379E 01	42.388	-39.97	401.74	2.48333	0.28883	2.34	1.209E 04
3	2.172E 03	19.325	-38.05	401.06	4.01667	0.25296	2.11	4.319E 05
4	3.568E 03	-3.989	-40.02	401.73	5.56667	0.24112	1.93	9.264E 05
5	2.335E 03	-27.553	-45.88	403.81	7.13333	0.23981	1.77	9.112E 05
6	1.156E 03	-50.115	-36.17	400.38	8.63333	0.21430	1.33	3.615E 05
7	2.688E 01	-73.428	-38.14	401.04	10.18333	0.24345	1.32	8.708E 03
8	0.0	97.296	2.10	400.23	10.80000	0.33684	1.00	0.0
9	0.0	73.983	4.07	400.32	12.35000	0.31695	1.00	0.0
10	1.329E 03	30.113	-34.78	405.67	15.26667	0.26027	2.00	2.331E 05
11	2.877E 03	7.300	-40.59	407.28	16.78331	0.24727	2.10	6.903E 05
12	3.383E 03	-15.763	-42.51	407.84	18.31667	0.23734	1.84	1.079E 06
13	1.927E 03	-39.076	-40.54	407.33	19.86664	0.22355	1.49	7.027E 05
14	3.480E 02	-62.641	-34.68	405.79	21.43330	0.21858	1.28	9.705E 04
15	0.0	-65.147	4.20	400.50	21.59999	0.27582	1.24	0.0

 ** ORBITAL FLUX STUDY WITH COMPOSITE PARTICLE ENVIRONMENTS: VETTES AP5, AP6, AP7; AE4, AE5, FOR SOLAR MAXIMUM *** UNIFLX OF 1973 **
 ** ELECTRON FLUXES EXPONENTIALLY DECAYED TO 1970. 0 WITH LIFETIMES: E.G. STASSINOPOULOS & VERZARIU *** CUTOFF TIMES: **
 ** MAGNETIC COORDINATES B AND L COMPUTED BY INVARA OF 1972 WITH ALLMAG. MODEL 4: CAINGSWEENEY 120-TERM POGO 8/69 * TIME= 1974.0 **
 ** VEHICLE : SATS ** INCLINATION= 90DEG ** PERIGEE= 400KM ** APOGEE= 400KM ** B/L ORBIT TAPE: TD6794 ** PERIOD= 1.543 **

 ** TABLE OF PEAK AND TOTAL FLUXES PER PERIOD : ENERGY > 500 MEV **

PERIOD NUMBER	PEAK FLUX ENCOUNTERED #/CM**2/SEC	POSITION AT WHICH ENCOUNTERED LONGITUDE (DEG)	LATITUDE (DEG)	ALTITUDE (KM)	ORBIT TIME (HOURS)	FIELD(B) (GAUSS)	LINE(L) (E.R.)	TOTAL FLUX PER ORBIT #/CM**2/ORBIT
1	1.768E 05	64.699	-53.58	406.58	1.00000	0.39868	4.55	6.066E 07
2	2.504E 05	41.134	-59.44	408.56	2.56667	0.34805	4.54	8.360E 07
3	2.678E 05	17.570	-65.31	410.37	4.13333	0.33872	4.39	9.403E 07
4	2.299E 05	-5.994	-71.17	411.97	5.70000	0.35990	4.35	8.984E 07
5	2.189E 05	-29.308	-73.14	412.45	7.25000	0.37468	4.03	9.178E 07
6	1.769E 05	-52.622	-75.11	412.89	8.80000	0.40051	4.12	6.043E 07
7	1.134E 05	-75.935	-77.08	413.30	10.35000	0.43193	4.70	4.170E 07
8	1.282E 05	-77.492	-50.38	409.05	12.11667	0.43784	4.43	4.775E 07
9	2.045E 05	54.680	-56.19	411.36	13.63333	0.37203	4.60	6.901E 07
10	2.739E 05	31.617	-58.11	411.84	15.16667	0.32229	3.92	9.023E 07
11	2.565E 05	9.055	-67.81	413.81	16.66664	0.34542	4.41	9.200E 07
12	2.073E 05	-13.757	-73.62	414.64	18.18330	0.37459	4.57	9.696E 07
13	1.876E 05	-39.327	-36.65	406.27	19.88332	0.21614	1.41	8.521E 07
14	1.349E 05	-60.134	-73.58	414.68	21.26666	0.39805	3.76	4.459E 07
15	1.305E 05	-83.197	-75.50	414.90	22.79999	0.43291	4.37	4.330E 07

Table 138

 ** ORBITAL FLUX STUDY WITH COMPOSITE PARTICLE ENVIRONMENTS: VETTES AP5, AP6, AP7; AE4, AE5, FOR SOLAR MAXIMUM *** UNIFLX OF 1973 **
 ** ELECTRON FLUXES EXPONENTIALLY DECAYED TO 1970, 0 WITH LIFETIMES: E.G. STASSINOPOULOS P. VERZARIU ** CUTOFF TIMES: **
 ** MAGNETIC COORDINATES B AND L COMPUTED BY INVARA OF 1972 WITH ALLMAG, MODEL 4: CAINE SWEENEY 120-TERM PGD 8/69 * TIME= 1974.0 **
 ** VEHICLE : - SATS ** INCLINATION= 0DEG ** PERIGEE= 600KM ** APOGEE= 600KM ** B/L ORBIT TAPE: TD7964 ** PERIOD= 1.611 **

***** LOW ENERGY PROTONS *****
 ** TABLE OF PEAK AND TOTAL FLUXES PER PERIOD : ENERGY >.100 MEV **

PERIOD NUMBER	PEAK FLUX ENCOUNTERED #/CM**2/SEC	POSITION AT WHICH ENCOUNTERED			ORBIT TIME (HOURS)	FIELD(B) (GAUSS)	LINE(L) (E.R.)	TOTAL FLUX PER ORBIT #/CM**2/ORBIT
		LONGITUDE (DEG)	LATITUDE (DEG)	ALTITUDE (KM)				
1	5.883E 02	-51.594	-0.00	596.34	0.23333	0.22712	1.20	1.781E 05
2	5.645E 02	-49.413	-0.00	592.19	1.96667	0.22542	1.20	1.676E 05
3	6.017E 02	-50.683	-0.00	588.24	3.68333	0.22703	1.20	1.591E 05
4	4.893E 02	-51.527	-0.00	584.69	5.40000	0.22860	1.20	1.462E 05
5	4.751E 02	-49.658	-0.00	581.88	7.13333	0.22667	1.19	1.394E 05
6	5.293E 02	-50.866	-0.00	581.04	8.85000	0.22752	1.20	1.407E 05
7	4.660E 02	-52.075	-0.00	581.85	10.56667	0.22903	1.20	1.410E 05
8	5.085E 02	-49.805	-0.00	584.63	12.30000	0.22653	1.20	1.476E 05
9	5.784E 02	-51.048	-0.00	588.17	14.01667	0.22739	1.20	1.594E 05
10	5.323E 02	-48.637	-0.00	592.72	15.75000	0.22481	1.19	1.692E 05
11	6.692E 02	-50.137	-0.00	596.28	17.46666	0.22571	1.20	1.840E 05
12	6.172E 02	-51.458	-0.00	598.84	19.18330	0.22674	1.20	1.825E 05
13	6.402E 02	-49.320	0.00	600.00	20.91664	0.22456	1.20	1.646E 05
14	2.579E 02	-42.375	0.00	599.94	20.95000	0.21852	1.17	4.238E 04

 ** ORBITAL FLUX STUDY WITH COMPOSITE PARTICLE ENVIRONMENTS: VETTES AFS, AP6, AP7; AE4, AES, FOR SOLAR MAXIMUM *** UNIFLX OF 1973 **
 ** ELECTRON FLUXES EXPONENTIALLY DECAYED TO 1970. 0 WITH LIFETIMES: E.G. STASSINOPOULOS & P. VERZARIU ** CUTOFF TIMES: **
 ** MAGNETIC COORDINATES B AND L COMPUTED BY INVARA OF 1972 WITH ALLMAG, MODEL 4: CAIN & SWEENEY 120-TERM POGO 8/69 * TIME= 1974.0 **
 ** VEHICLE : SATS ** INCLINATION= 0 DEG ** PERIGEE= 600KM ** APOGEE= 600KM ** S/L ORBIT TAPE: TD7964 ** PERIOD= 1.611 **

 ***** HIGH ENERGY PROTONS *****
 ** TABLE OF PEAK AND TOTAL FLUXES PER PERIOD : ENERGY >5.00 MEV **

PERIOD NUMBER	PEAK FLUX ENCOUNTERED #/CM**2/SEC	POSITION AT WHICH ENCOUNTERED			ORBIT TIME (HOURS)	FIELD(B) (GAUSS)	LINE(L) (E.R.)	TOTAL FLUX PER ORBIT #/CM**2/CRBIT
		LONGITUDE (DEG)	LATITUDE (DEG)	ALTITUDE (KM)				
1	4.416E 01	-37.683	-0.00	594.22	0.30000	0.21594	1.16	1.949E 04
2	4.187E 01	-38.967	-0.00	590.34	2.01667	0.21706	1.16	1.795E 04
3	3.807E 01	-40.225	-0.00	586.50	3.73333	0.21824	1.16	1.682E 04
4	3.774E 01	-37.967	-0.00	582.96	5.46667	0.21716	1.16	1.603E 04
5	3.812E 01	-39.180	-0.00	581.28	7.18333	0.21804	1.16	1.545E 04
6	3.458E 01	-36.895	-0.00	581.35	8.91667	0.21672	1.15	1.565E 04
7	3.822E 01	-38.109	-0.00	583.13	10.63333	0.21722	1.16	1.640E 04
8	3.870E 01	-39.340	-0.00	586.19	12.35000	0.21768	1.16	1.744E 04
9	4.152E 01	-37.112	-0.00	590.61	14.08333	0.21596	1.15	1.870E 04
10	4.475E 01	-38.398	-0.00	594.46	15.80000	0.21632	1.16	1.991E 04
11	4.840E 01	-39.709	-0.00	597.63	17.51666	0.21684	1.16	2.124E 04
12	4.949E 01	-37.565	0.00	599.73	19.25000	0.21535	1.16	1.866E 04
13	2.430E 01	-45.847	0.00	599.99	20.93330	0.22137	1.18	8.507E 03
14	4.958E 01	-38.902	0.00	599.85	20.96666	0.21612	1.16	1.638E 04

Table 140

 ** ORBITAL FLUX STUDY WITH COMPOSITE PARTICLE ENVIRONMENTS: VETTES AP5, AP6, AP7: AE4, AES, FOR SOLAR MAXIMUM *** UNIFLX OF 1973 **
 ** ELECTRON FLUXES EXPONENTIALLY DECAYED TO 1970. 0 WITH LIFETIMES: F.G. STASSINOPOULOS & P. VERZARIU ** CUTOFF TIMES: **
 ** MAGNETIC COORDINATES B AND L COMPUTED BY INVARA OF 1972 WITH ALLMAG, MODEL 4: CAINE SWEENEY 120-TERM POGO 8/69 * TIME= 1974.0 **
 ** VEHICLE: SATS ** INCLINATION= 0DEG ** PERIGEE= 600KM ** APOGEE= 600KM ** R/L ORBIT TAPE: TD7564 ** PERIOD= 1.611 **

 ***** ELECTRONS *****
 ** TABLE OF PEAK AND TOTAL FLUXES PER PERIOD : ENERGY >.500 MEV **

PERIOD NUMBER	PEAK FLUX ENCOUNTERED #/CM**2/SEC	POSITION AT WHICH ENCOUNTERED			ORBIT TIME (HOURS)	FIELD(B) (GAUSS)	LINE(L) (E.R.)	TOTAL FLUX PER ORBIT #/CM**2/ORBIT
		LONGITUDE (DEG)	LATITUDE (DEG)	ALTITUDE (KM)				
1	9.440E 01	-34.204	-0.00	593.64	0.31667	0.21438	1.15	3.844E 04
2	8.582E 01	-35.484	-0.00	589.73	2.03333	0.21526	1.15	3.485E 04
3	7.798E 01	-36.737	-0.00	585.95	3.75000	0.21621	1.15	3.187E 04
4	7.385E 01	-34.476	-0.00	582.60	5.48333	0.21551	1.15	3.000E 04
5	7.158E 01	-35.688	-0.00	581.16	7.20000	0.21616	1.15	2.931E 04
6	7.034E 01	-33.402	-0.00	581.52	8.93333	0.21523	1.14	2.986E 04
7	7.619E 01	-34.618	-0.00	583.53	10.65000	0.21548	1.15	3.152E 04
8	8.135E 01	-35.853	-0.00	586.74	12.36667	0.21571	1.15	3.425E 04
9	8.786E 01	-37.112	-0.00	590.61	14.08333	0.21596	1.15	3.746E 04
10	9.478E 01	-34.920	-0.00	595.02	15.81667	0.21453	1.15	4.025E 04
11	1.036E 02	-36.234	-0.00	598.02	17.53331	0.21483	1.15	4.360E 04
12	1.027E 02	-34.092	0.00	599.86	19.26666	0.21375	1.15	3.862E 04
13	4.333E 01	-16.728	0.00	599.89	19.34999	0.21563	1.13	1.063E 04
14	1.042E 02	-35.429	0.00	599.72	20.98331	0.21430	1.15	3.882E 04

** ORBITAL FLUX STUDY WITH COMPOSITE PARTICLE ENVIRONMENTS: VETTES AP5, AP6, AP7; AE4, AE5, FOR SOLAR MAXIMUM *** UNIFLX OF 1973 ***
 ** ELECTRON FLUXES EXPONENTIALLY DECAYED TO 1970. 0 WITH LIFETIMES: E.G. STASSINPOULOS & VERZARIU ** CUTOFF TIMES:
 ** MAGNETIC COORDINATES B AND L COMPUTED BY INVARA OF 1972 WITH ALLMAG, MODEL 4: CAINESWEENEY 120-TERM POGO 2/69 * TIME= 1974.0 *
 ** VEHICLE : SATS ** INCLINATION= 30DEG ** PERIGEE= 600KM ** APOGEE= 600KM ** 8/L ORBIT TAPE: 1D7964 ** PERIOD= 1.611 **

 ***** LOW ENERGY PROTONS *****
 ** TABLE OF PEAK AND TOTAL FLUXES PER PERIOD : ENERGY >.100 MEV **

PERIOD NUMBER	PEAK FLUX ENCOUNTERED #/CM**2/SEC	POSITION AT WHICH ENCOUNTERED LONGITUDE LATITUDE ALTITUDE (DEG) (DEG) (KM)	ORBIT TIME (HOURS)	FIELD(B) (GAUSS)	LINE(L) (E.R.)	TOTAL FLUX PER ORBIT #/CM**2/ORBIT
1	0.0	-57.254 1.87 500.00	0.01667	0.25419	1.14	0.0
2	0.0	-122.955 1.17 599.96	1.61666	0.24876	1.10	0.0
3	0.0	-145.680 2.34 599.94	3.23333	0.25015	1.08	0.0
4	9.286E 02	40.987 -24.27 590.44	5.86666	0.25863	1.59	4.257E 05
5	9.652E 03	30.029 -27.84 592.83	7.53333	0.24718	1.72	3.929E 06
6	1.015E 04	15.792 -29.43 594.41	9.18333	0.23755	1.74	9.733E 06
7	1.250E 04	-6.289 -29.68 594.70	10.80000	0.22080	1.60	1.381E 07
8	1.595E 04	-40.324 -28.47 593.18	12.36667	0.19378	1.30	1.402E 07
9	1.565E 04	-46.366 -30.11 595.74	14.05000	0.19351	1.30	1.219E 07
10	1.293E 04	-37.041 -25.42 598.54	15.80000	0.19312	1.28	9.727E 06
11	1.110E 04	-48.686 -20.89 598.91	17.46666	0.18963	1.20	5.918E 06
12	6.212E 02	-54.895 -11.91 599.13	19.16664	0.19959	1.17	4.259E 05
13	3.772E 02	-65.419 -3.52 599.27	20.84999	0.22740	1.19	9.566E 04
14	3.966E 00	-47.487 7.65 599.76	20.95000	0.24913	1.25	4.200E 02

 ** ORBITAL FLUX STUDY WITH COMPOSITE PARTICLE ENVIRONMENTS: VETTER APS, AP6, AP7; A54, A55, FOR SOLAR MAXIMUM **** UNIFLX OF 1973 :
 ** ELECTRON FLUXES EXPONENTIALLY DECAYED TO 1970. 0 WITH LIFETIMES: F.G.STASSINCOULDS&P.VERZARIU ** CUTOFF TIMES: ;
 ** MAGNETIC COORDINATES MANUALLY COMPUTED BY INVASA OF 1972 WITH ALLMAG, MODEL 4: CAINESEWEENEY 120-TFM 9060 8/69 * TIME= 1974.0 *
 ** VEHICLE : SATU ** INCLINATION= 300CG ** PERIGEE= 600KM ** APOGEE= 600KM ** R/L ORBIT TAPE: T07564 ** PERIOD= 1.611 *

 ***** HIGH ENERGY PROTONS *****
 ** TABLE OF PEAK AND TOTAL FLUXES PER PERIOD : ENERGY >5.00 MEV **

PERIOD NUMBER	PEAK FLUX ENCOUNTERED #/CM**2/SEC	POSITION AT WHICH ENCOUNTERED LONGITUDE LATITUDE ALTITUDE (DEG) (DEG) (KM)	ORBIT TIME (HOURS)	FIELD(B) (GAUSS)	LINE(L) (F.P.)	TOTAL FLUX PER ORBIT #/CM**2/ORBIT
1	0.0	-97.254 1.37 600.00	0.01667	0.25419	1.14	0.0
2	0.0	-122.955 1.17 599.96	1.61666	0.24876	1.10	0.0
3	0.0	-145.660 2.34 599.94	3.23333	0.25015	1.08	0.0
4	7.191E 01	37.347 -23.04 599.76	5.85000	0.25472	1.55	3.007E 04
5	1.023E 03	26.183 -27.00 599.16	7.51667	0.24473	1.69	6.585E 05
6	2.416E 03	11.810 -23.93 599.80	9.16667	0.23511	1.71	2.362E 06
7	4.194E 03	-22.038 -27.22 599.20	10.73333	0.20551	1.41	3.655E 06
8	6.794E 03	-40.324 -28.47 599.18	12.76667	0.19378	1.30	4.281E 06
9	8.617E 03	-46.766 -30.11 599.74	14.05000	0.19351	1.20	3.711E 06
10	4.165E 03	-33.377 -24.29 598.70	15.81667	0.19477	1.29	2.631E 06
11	3.037E 03	-46.686 -20.89 598.91	17.46666	0.18963	1.20	1.541E 06
12	2.658E 02	-54.895 -11.31 599.13	19.16666	0.19959	1.17	1.560E 05
13	2.442E 01	-74.463 -9.03 599.11	20.79999	0.21841	1.15	6.389E 03
14	1.404E 00	-57.142 -7.90 599.07	22.41664	0.23260	1.10	2.650E 02

 ** ORBITAL FLUX STUDY WITH COMPOSITE PARTICLE ENVIRONMENTS: VETTES AP5, AP6, AP7; AE4, AE5, FOR SOLAR MAXIMUM **** UNIFLX OF 1973 **
 ** ELECTRON FLUXES EXPONENTIALLY DECAYED TO 1970. 0 WITH LIFETIMES: E.G. STASSINOPOULOS & P. VERZARIU ** CUTOFF TIMES: **
 ** MAGNETIC COORDINATES B AND L COMPUTED BY INVVAR OF 1972 WITH ALLMAG. MODEL 4: CAINE SWEENEY 120-TERM POGO 8/69 * TIME= 1974.0 *
 ** VEHICLE-1 SATS. ** INCLINATION= 30DEG ** PERIGEE= 600KM ** APOGEE= 600KM ** B/L ORBIT TAPE: TD7964 ** PERIOD= 1.611 **

 ***** ELECTRONICS *****
 ** TABLE OF PEAK AND TOTAL FLUXES PER PERIOD : ENERGY >.500 MEV **

PERIOD NUMBER	PEAK FLUX ENCOUNTERED #/CM**2/SFC	POSITION AT WHICH ENCOUNTERED LONGITUDE (DEG)	LATITUDE (DEG)	ALTITUDE (KM)	ORBIT TIME (HOURS)	FIELD(B) (GAUSS)	LINE(L) (E.R.)	TOTAL FLUX PER ORBIT #/CM**2/ORBIT
1	0.0	-97.254	1.87	600.00	0.01667	0.25419	1.14	0.0
2	0.0	-122.955	1.17	599.96	1.61666	0.24876	1.10	0.0
3	0.0	-145.680	2.34	599.94	3.23333	0.25015	1.08	0.0
4	1.108E 01	-4.232	-1.28	584.36	5.63333	0.22488	1.14	2.923E 03
5	3.456E 04	7.564	-21.20	588.82	7.43333	0.23394	1.47	1.351E 07
6	2.140E 05	-10.897	-23.35	589.84	9.06667	0.21523	1.42	7.433E 07
7	4.997E 05	-22.038	-27.22	592.20	10.73333	0.20551	1.41	1.636E 08
8	6.792E 05	-28.359	-29.87	594.97	12.41667	0.20177	1.40	2.449E 08
9	6.518E 05	-26.295	-28.56	597.76	14.13333	0.20224	1.40	3.078E 08
10	1.467E 05	-33.377	-24.29	598.70	15.81667	0.19477	1.29	7.294E 07
11	3.324E 04	-45.279	-19.44	598.99	17.48331	0.19001	1.20	8.324E 06
12	1.748E 03	-54.895	-11.91	599.13	19.16664	0.19959	1.17	6.158E 05
13	4.531E 01	-74.468	-9.03	599.11	20.79999	0.21841	1.15	1.256E 04
14	1.427E 00	-57.149	-7.90	599.07	22.41664	0.23260	1.10	1.200E 02

Table 14-4

 ** ORBITAL FLUX STUDY WITH COMPOSITE PARTICLE ENVIRONMENTS: VETTES AP5, AP6, AP7; AE4, AE5. FOR SOLAR MAXIMUM *** UNIFLX OF 1973 **
 ** ELECTRON FLUXES EXPONENTIALLY DECAYED TO 1970. 0 WITH LIFETIMES: F.G. STASSINOPOULOS & P. VERZARIU ** CUTOFF TIMES: **
 ** MAGNETIC COORDINATES R AND L COMPUTED BY INVAP OF 1972 WITH ALLMAG, MODEL 4: CAINESWEEFNEY 120-TERM POGO 8/69 * TIME= 1974.0 **
 ** VEHICLE : SATS ** INCLINATION= 60DEG ** PERIGEE= 600KM ** APOGEE= 600KM ** R/L ORBIT TAPE: TD7564 ** PERIOD= 1.611 **

 ***** LOW ENERGY PROTONS *****
 ** TABLE OF PEAK AND TOTAL FLUXES PER PERIOD : ENERGY >.100 MEV **

PERIOD NUMBER	PEAK FLUX ENCOUNTERED #/CM**2/SEC	POSITION AT WHICH ENCOUNTERED LONGITUDE LATITUDE ALTITUDE (DEG) (DEG) (KM)	ORBIT TIME (HOURS)	FIELD(B) (GAUSS)	LINE(L) (E.P.)	TOTAL FLUX PER ORBIT 4/CM**2/ORBIT
1	2.170E 05	-17.467 60.11 609.00	0.40000	0.39412	4.87	6.566E 07
2	2.071E 05	-24.577 59.03 607.94	2.05000	0.39680	4.95	2.929E 07
3	2.965E 05	62.388 -52.38 604.73	4.31667	0.35932	4.28	6.527E 07
4	6.120E 05	51.070 -56.93 606.80	5.96667	0.34008	4.68	1.401E 08
5	5.397E 05	35.841 -58.79 607.77	7.60000	0.31352	4.29	2.171E 08
6	5.464E 05	35.781 -59.94 609.14	9.26667	0.31783	4.48	3.343E 08
7	2.098E 05	21.461 -58.96 609.30	10.90000	0.29312	3.76	1.204E 08
8	1.884E 05	22.187 -51.57 608.39	12.58333	0.26788	3.02	1.082E 08
9	1.084E 05	-4.778 -52.74 608.60	14.18333	0.25305	2.52	5.403E 07
10	2.806E 04	-12.030 -41.65 606.25	15.86667	0.22568	1.89	1.717E 07
11	1.749E 04	-35.093 -40.37 605.94	17.48331	0.21109	1.57	1.068E 07
12	1.279E 04	-53.010 -33.20 604.28	19.13332	0.19737	1.31	5.578E 06
13	2.958E 03	-72.029 -25.68 602.67	20.78331	0.20481	1.20	8.016E 05
14	7.398E 01	-55.550 -24.24 602.38	22.39999	0.23651	1.18	5.760E 03

 ** ORBITAL FLUX STUDY WITH COMPOSITE PARTICLE ENVIRONMENTS: VETTES AP5, AP6, AP7; AE4, AE5, FOR SOLAR MAXIMUM 0000 UNIFLR OF 1973 **
 ** ELECTRON FLUXES EXPONENTIALLY DECAYED TO 1970-0 WITH LIFETIMES: C-6, STASSING-BUL-036P, VERZARIU-00 CUYOPE-0000 **
 ** MAGNETIC COORDINATES B AND L COMPUTED BY INVARA OF 1972 WITH ALLMAG. MODEL 4: CAING-SHEENEY 120-TERM POGO 8/69 0 TIME=1970.0 **
 ** VEHICLE: SAT6 ** INCLINATION= 60DEG ** PERIGEE= 600KM ** APOGEE= 600KM ** B/L ORBIT TAPE 1-707560-00 PERIOD= 10021-00

 ** TABLE OF PEAK AND TOTAL FLUXES PER PERIOD: ENERGY >5.00 MEV **

PERIOD NUMBER	PEAK FLUX ENCOUNTERED #/CM**2/SEC	POSITION AT WHICH ENCOUNTERED			ORBIT TIME (HOURS)	FIELD(B) (GAUSS)	LINE(L) (E.R.)	TOTAL FLUX PER ORBIT 0/CM**2/ORBIT
		LONGITUDE (DEG)	LATITUDE (DEG)	ALTITUDE (KM)				
1	0.0	-58.616	3.24	600.05	0.01667	0.25845	1.25	0.0
2	0.0	-123.934	-1.49	600.00	1.61666	0.24921	1.10	0.0
3	1.681E 03	38.574	-33.79	597.24	4.20000	0.25750	2.00	3.448E 03
4	4.183E 03	15.272	-35.16	597.74	5.81667	0.23734	1.96	1.313E 06
5	6.895E 03	-5.248	-39.41	599.35	7.45000	0.22759	1.90	2.679E 06
6	6.304E 03	-21.789	-46.12	602.06	9.10000	0.22931	1.90	3.804E 06
7	3.395E 03	-40.554	-49.75	603.59	10.73333	0.23659	1.81	1.575E 06
8	1.027E 03	-40.818	-38.68	605.56	12.66667	0.26446	2.28	8.104E 05
9	3.955E 03	16.829	-37.28	605.24	14.28333	0.23865	2.06	1.733E 06
10	7.157E 03	-12.030	-41.65	606.25	15.86667	0.22568	1.89	3.459E 06
11	5.875E 03	-29.688	-34.57	604.60	17.51666	0.20474	1.48	3.168E 06
12	4.494E 03	-53.010	-33.20	604.28	19.13332	0.19737	1.31	1.772E 06
13	5.789E 02	-72.029	-25.68	602.67	20.78331	0.20481	1.20	1.462E 05
14	7.456E 00	-91.773	-17.93	601.30	22.43338	0.22511	1.13	1.588E 03

 ** ORBITAL FLUX STUDY WITH COMPOSITE PARTICLE ENVIRONMENTS: VETTES AP5, AP6, AP7; AE4, AES, FOR SOLAR MAXIMUM **** UNIFLX OF 1973 **
 ** ELECTRON FLUXES EXPONENTIALLY DECAYED TO 1970, 0 WITH LIFETIMES: E.G. STASSINOPOULOS & P. VERZARIU ** CUTOFF TIMES: **
 ** MAGNETIC COORDINATES B AND L COMPUTED BY INVARI OF 1972 WITH ALLMAG, MODEL 4: CAINESWEELEY 120-TERM POGD 8/69 * TIME= 1974.0 **
 ** VEHICLE : SATS ** INCLINATION= 60DEG ** PERIGEE= 600KM ** APOGEE= 600KM ** B/L ORBIT TAPE: 1D7564 ** PERIOD= 1.611 **

 ** TABLE OF PEAK AND TOTAL FLUXES PER PERIOD : ENERGY > .500 MEV **

PERIOD NUMBER	PEAK FLUX ENCOUNTERED #/CM**2/SEC	POSITION AT WHICH ENCOUNTERED LONGITUDE (DEG) LATITUDE (DEG) ALTITUDE (KM)	ORBIT TIME (HOURS)	FIELD(B) (GAUSS)	LINE(L) (E.R.)	TOTAL FLUX PER ORBIT #/CM**2/ORBIT
1	1.994E 05	-3.266 59.42 608.19	0.43333	0.38755	4.05	1.354E 08
2	1.832E 05	-18.052 57.92 607.33	2.06667	0.39007	4.26	5.702E 07
3	2.315E 05	62.388 -52.38 604.73	4.21667	0.35932	4.28	1.062E 08
4	3.058E 05	45.361 -55.27 606.02	5.95000	0.32032	4.10	1.393E 08
5	3.526E 05	-17.087 -24.34 594.19	7.36666	0.20885	1.40	2.301E 08
6	6.688E 05	-33.821 -34.92 597.66	9.03333	0.20324	1.45	3.791E 08
7	3.491E 05	-54.367 -39.18 599.26	10.66667	0.20973	1.41	2.757E 08
8	8.327E 04	12.131 -55.57 609.04	12.55000	0.27159	3.12	4.103E 07
9	2.585E 04	21.781 -31.33 603.89	14.21667	0.24020	1.84	8.725E 06
10	1.027E 05	2.549 -23.74 602.32	15.96667	0.22747	1.51	4.182E 07
11	6.733E 05	-27.294 -31.57 603.93	17.53331	0.20332	1.45	1.588E 08
12	2.753E 05	-58.212 -39.06 605.63	19.09999	0.21153	1.40	9.010E 07
13	1.201E 05	-155.122 -59.40 608.11	20.48331	0.45388	4.00	7.421E 07
14	1.229E 05	10.524 59.15 609.40	21.28331	0.38704	3.63	9.628E 07

 ** ORBITAL FLUX STUDY WITH COMPOSITE PARTICLE ENVIRONMENTS: VETTES AP5, AP6, AP7; AE4, AE5, FOR SOLAR MAXIMUM *** UNIFLX OF 1973 **
 ** ELECTRON FLUXES EXPONENTIALLY DECAYED TO 1970. 0 WITH LIFETIMES; E.G. STASSINOPoulos & VERZARU ** CUTOFF TIMES: **
 ** MAGNETIC COORDINATES B AND L COMPUTED BY INVARA OF 1972 WITH ALLMAG, MODEL 4: CAINGSWENEY 120-TERM PDGO 8/69 * TIME= 1974.0 **
 ** VEHICLE: SATS ** INCLINATION= 90DEG ** PERIGEE= 600KM ** APOGEE= 600KM ** B/L ORBIT TAPE: TD7564 ** PERIOD= 1.611 **

 ** TABLE OF PEAK AND TOTAL FLUXES PER PERIOD: ENERGY >.100 MEV **

PERIOD NUMBER	PEAK FLUX ENCOUNTERED #/CM**2/SEC	POSITION AT WHICH ENCOUNTERED			ORBIT TIME (HOURS)	FIELD(B) (GAUSS)	LINE(L) (E.P.)	TOTAL FLUX PER ORBIT #/CM**2/ORBIT
		LONGITUDE (DEG)	LATITUDE (DEG)	ALTITUDE (KM)				
1	3.460E 05	63.977	-54.94	607.20	1.05000	0.37073	4.96	4.178E 07
2	8.109E 05	39.410	-60.07	608.92	2.68333	0.32506	4.69	1.336E 08
3	8.660E 05	14.843	-65.19	610.51	4.31667	0.31370	4.37	1.798E 08
4	5.533E 05	-9.974	-74.01	612.82	5.96667	0.34819	4.97	1.310E 08
5	4.639E 05	-34.291	-75.41	613.13	7.58333	0.35908	4.60	7.566E 07
6	3.185E 05	-58.607	-76.81	613.43	9.20000	0.37960	4.72	4.167E 07
7	1.436E 05	-82.923	-78.21	613.70	10.81667	0.40481	5.41	1.325E 07
8	3.080E 05	-69.501	-52.20	610.36	12.65000	0.38104	4.69	3.587E 07
9	7.267E 05	45.686	-58.23	611.90	14.23333	0.33095	4.66	1.027E 08
10	9.521E 05	21.871	-64.25	613.23	15.81667	0.31600	4.55	1.771E 08
11	7.523E 05	-1.944	-70.26	614.30	17.39999	0.32899	4.50	1.473E 08
12	4.374E 05	-25.759	-76.27	615.03	18.98331	0.36145	5.03	9.073E 07
13	2.545E 05	-49.825	-78.57	615.23	20.58331	0.38280	5.32	4.558E 07
14	2.502E 05	-74.141	-77.17	615.15	22.20000	0.39314	4.91	2.450E 07

Table 148

 ** ORBITAL FLUX STUDY WITH COMPOSITE PARTICLE ENVIRONMENTS: VETTES AP5, AP6, AP7; AE4, AE5, FOR SOLAR MAXIMUM *** UNIFLX OF 1973 **
 ** ELECTRON FLUXES EXPONENTIALLY DECAYED TO 1970. 0 WITH LIFETIMES: E.G. STASSINOPoulos, VERZARU ** CUTOFF TIMES: **
 ** MAGNETIC COORDINATES R AND L COMPUTED BY INVARA OF 1972 WITH ALLMAG, MODEL 4: CAINESEWENEY 120-TERM POGO 8/69 * TIME = 1974.0 **
 ** VEHICLE : SATS ** INCLINATION= 90DEG ** PERIGEE= 600KM ** APOGEE= 600KM ** B/L ORBIT TAPE: TD7664 ** PERIOD= 1.611 **

 ** HIGH ENERGY PROTONS *****
 ** TABLE OF PEAK AND TOTAL FLUXES PER PERIOD : ENERGY >5.00 MEV **

PERIOD NUMBER	PEAK FLUX ENCOUNTERED #/CM**2/SEC	POSITION AT WHICH ENCOUNTERED LONGITUDE LATITUDE ALTITUDE (DEG) (DEG) (KM)	ORBIT TIME (HOURS)	FIELD(B) (GAUSS)	LINE(L) (E.R.)	TOTAL FLUX PER ORBIT #/CM**2/ORBIT
1	0.0	-100.480 3.75 600.07	0.01667	0.25968	1.15	0.0
2	1.135E 03	41.165 -33.98 599.86	2.56667	0.26166	2.02	2.118E 05
3	4.087E 03	16.849 -35.40 600.31	4.18333	0.23815	1.98	1.013E 06
4	6.869E 03	-7.718 -40.54 602.06	5.81667	0.22714	1.91	2.262E 06
5	5.815E 03	-31.283 -30.75 598.78	7.38333	0.20014	1.40	2.928E 06
6	3.652E 03	-55.599 -32.16 599.21	9.00000	0.19727	1.29	1.333E 06
7	1.236E 02	-79.915 -33.57 599.65	10.61667	0.22851	1.28	3.641E 04
8	1.161E 00	-102.728 -12.52 594.42	12.13333	0.23386	1.11	6.750E 01
9	7.649E 02	44.182 -35.90 605.92	14.33333	0.26898	2.13	1.299E 05
10	3.789E 03	19.866 -34.49 605.58	15.95000	0.23927	1.96	9.232E 05
11	6.114E 03	-4.200 -36.81 606.23	17.54999	0.22533	1.83	2.107E 06
12	6.545E 03	-28.266 -39.13 606.90	19.14999	0.21189	1.60	3.087E 06
13	4.134E 03	-52.833 -33.99 605.54	20.78331	0.19841	1.33	1.704E 06
14	2.409E 02	-76.899 -36.31 606.19	22.38332	0.22896	1.33	7.064E 04

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 ** CRITICAL FLUX STUDY WITH COMPOSITE PARTICLE ENVIRONMENTS: VETTES APS, AP6, AP7: AE4, AES. FOR SOLAR MAXIMUM *** UNIFLX OF 1973 **
 ** ELECTRON FLUXES EXPONENTIALLY DECAYED TO 1970. 0 WITH LIFETIMES: E.G. STASSINOPOULOS P. VERZARIU ** CUTOFF TIMES: - **
 ** MAGNETIC COORDINATES B AND L COMPUTED BY INVARA OF 1972 WITH ALLMAG. MODEL 4: CAINE SWEENEY 120-TERM PDGO 8/69 * TIME= 1974.0 **
 ** VEHICLE : SATS ** INCLINATION= 90 DEG ** PERIGEE= 600KM ** APOGEE= 600KM ** B/L ORBIT TAPE: TD7964 ** PERIOD= 1.611 **
 ** ** **
 ** ** ** ELECTRONS ** ** **
 ** TABLE OF PEAK AND TOTAL FLUXES PER PERIOD : ENERGY >.500 MEV **
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PERIOD NUMBER	PEAK FLUX ENCOUNTERED #/CM**2/SEC	POSITION AT WHICH ENCOUNTERED LONGITUDE (DEG)	LATITUDE (DEG)	ALTITUDE (KM)	ORBIT TIME (HOURS)	FIELD(B) (GAUSS)	LINE(L) (E.R.)	TOTAL FLUX PER ORBIT #/CM**2/ORBIT
1	2.308E 05	64.228	-51.22	605.90	1.03333	0.36207	4.13	8.954E 07
2	3.256E 05	39.661	-56.35	607.68	2.66667	0.31150	4.06	1.202E 08
3	3.125E 05	14.843	-65.19	610.51	4.31667	0.31370	4.37	1.335E 08
4	2.853E 05	-9.724	-70.30	611.92	5.95000	0.32752	4.21	1.531E 08
5	7.540E 05	-31.283	-30.75	598.78	7.38333	0.20014	1.40	2.302E 08
6	2.899E 05	-56.100	-39.63	601.72	9.03333	0.21170	1.41	1.316E 08
7	1.812E 05	-82.673	-74.51	612.95	10.80000	0.39150	4.30	7.081E 07
8	1.918E 05	69.501	-52.20	610.36	12.65000	0.38104	4.59	8.287E 07
9	3.124E 05	45.435	-54.51	610.99	14.25000	0.31733	3.99	1.101E 08
10	3.362E 05	21.620	-60.54	612.45	15.83333	0.29949	3.97	1.303E 08
11	2.939E 05	-1.944	-70.26	614.30	17.39999	0.32899	4.50	1.515E 08
12	6.565E 05	-28.767	-31.67	604.91	19.18330	0.20226	1.44	2.194E 08
13	4.447E 05	-52.582	-37.72	606.54	20.76666	0.20511	1.39	1.524E 08
14	2.002E 05	-74.392	-73.47	614.79	22.21666	0.37798	3.95	7.255E 07

Table 150

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** ORBITAL FLUX STUDY WITH COMPOSITE PARTICLE ENVIRONMENTS: VETTES AFB, AP6, AD7, AF4, AHF, PCF SCALAR MAXIMUM ** UNIFLX OF 1973 **  
**-ELECTRON FLUXES EXPONENTIALLY DECAYED TO 1976.0 WITH LIFETIMES: E.G. STASSINGPCDULOSEP.VEZARIU ** CUTOFF TIMES: *****  
** MAGNETIC COORDINATES B AND L COMPILED BY INVASA CF 1972 WITH ALLMAG, MODFL 4: CAINESSWEENEY 120-TERM POGC 8/29 * TIME= 1974.0 **  
** .VEHICLE.: - SATS ** .INCLINATION= ODEG ** PERIGEE= 800KM ** APCOEEL= 800KM ** B/L ORBIT TAPE: T07036 ** PERIOD= 1.681 **  
*****  
***** LCN ENERGY FRETIONS *****  
** TABLE OF PEAK AND TOTAL FLUXES REF PERIOD : ENERGY >.100 MEV **  
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PERIOD NUMBER	PEAK FLUX ENCOUNTERED #/CM**2/SEC	POSITION AT WHICH ENCOUNTERED LONGITUDE LATITUDE ALTITUDE (DEG) (DEG) (KM)			ORBIT TIME (HOURS)	FIELD (R) (GAUSS)	LINE (L) (E.R.)	TOTAL FLUX PER ORBIT #/CM**2/CORBIT
1	6.402E 03	-4C.501	-0.00	754.79	0.20000	0.15767	1.20	3.502E 06
2	6.063E 03	-41.166	-0.00	750.76	2.10000	0.19841	1.21	3.366E 06
3	5.873E 03	-41.901	-0.00	766.73	3.90000	0.19914	1.21	3.234E 06
4	5.740E 03	-35.074	-0.00	783.18	5.71667	0.19762	1.20	3.151E 06
5	6.387E 03	-35.662	-0.00	781.67	7.51667	0.19827	1.20	3.125E 06
6	6.135E 03	-4C.246	-0.00	782.00	9.31667	0.19858	1.20	3.106E 06
7	5.962E 03	-4C.639	-0.00	784.10	11.11667	0.19876	1.20	3.158E 06
8	5.846E 03	-41.452	-0.00	787.55	12.91667	0.19885	1.21	3.251E 06
9	6.270E 03	-3E.768	-0.00	792.22	14.73333	0.19691	1.20	3.442E 06
10	6.874E 03	-35.442	-0.00	796.05	16.53331	0.19696	1.20	3.669E 06
11	6.696E 03	-4C.141	-0.00	798.83	18.33331	0.19712	1.20	3.814E 06
12	6.473E 03	-4C.854	-0.00	799.98	20.13332	0.19745	1.21	3.663E 06
13	3.118E 03	-5E.162	-0.00	799.97	21.84999	0.21058	1.26	1.754E 06
14	6.416E 03	-3E.251	-0.00	799.06	21.95000	0.19606	1.20	2.757E 06

Table 151

 ** ORBITAL FLUX STUDY WITH COMPOSITE PARTICLE ENVIRONMENTS: VETTES AP5, AP6, AP7; AP4, AES, FOR SOLAR MAXIMUM *** UNIFLX OF 1973 **
 ** ELECTRON FLUXES EXPONENTIALLY DECAYED TO 1970.0 WITH LIFETIMES: E.G. STASSINOPoulos P. VERZANI ** CUTOFF TIMES: **
 ** MAGNETIC COORDINATES B AND L COMPILED BY INVARA OF 1972 WITH ALLMAG, MODEL 4: CAINESWEELEY 120-TERM POGO 2/69 * TIME= 1974.0 **
 ** VEHICLE: SATE. ** INCLINATION= .00 DEG ** PERIGEE= 800KM ** APCGEE= 800KM ** R/L ORBIT TAPE: TOTG36 ** PERIOD= .691 **

 ***** HIGH ENERGY PROTONS *****
 ** TABLE OF PEAK AND TOTAL FLUXES PER PERIOD : ENERGY >5.00 MEV **

PERIOD NUMBER	PEAK FLUX ENCOUNTERED #/CM**2/SEC	POSITION AT WHICH ENCOUNTERED LONGITUDE LATITUDE ALTITUDE (DEG) (DEG) (KM)	ORBIT TIME (HOURS)	FIELD(B) (GAUSS)	LINE(L) (E.F.)	TOTAL FLUX PER ORBIT #/CM**2/ORBIT
1	1.471E 03	-40.501 -0.00 794.79	0.30000	0.19767	1.20	7.583E 05
2	1.427E 03	-37.838 -0.00 790.18	2.11666	0.19661	1.20	7.189E 05
3	1.468E 03	-38.469 -0.00 786.22	3.91667	0.19725	1.20	6.864E 05
4	1.466E 03	-39.074 -0.00 783.18	5.71667	0.19782	1.20	6.659E 05
5	1.501E 03	-39.662 -0.00 781.67	7.51667	0.19827	1.20	6.588E 05
6	1.392E 03	-40.246 -0.00 782.00	9.31667	0.19858	1.20	6.587E 05
7	1.314E 03	-40.839 -0.00 784.10	11.11667	0.19876	1.20	6.776E 05
8	1.424E 03	-38.122 -0.00 788.09	12.93333	0.19692	1.20	7.066E 05
9	1.642E 03	-38.768 -0.00 792.22	14.73333	0.19691	1.20	7.582E 05
10	1.691E 03	-39.442 -0.00 796.05	16.53331	0.19696	1.20	7.689E 05
11	1.566E 03	-40.141 -0.00 798.83	18.33331	0.19712	1.20	7.606E 05
12	1.616E 03	-37.526 -0.00 800.00	20.14999	0.19866	1.20	6.413E 05
13	7.817E 02	-30.900 -0.00 799.92	20.18330	0.19361	1.19	3.725E 05
14	1.721E 03	-38.251 0.00 799.06	21.95000	0.19608	1.20	6.518E 05

 ** ORBITAL FLUX STUDY WITH COMPOSITE PARTICLE ENVIRONMENTS: VETTES AFS, AP6, AP7, AE4, AFS. FOR SOLAR MAXIMUM *** UNIFLX OF 1973 **
 ** ELECTRON FLUXES EXPONENTIALLY DECAYED TO 1970.0 WITH LIFETIMES: E.G. STASSINOPOLUS&P. VERZARIU ** CUTOFF TIMES: *****
 ** MAGNETIC COORDINATES B AND L COMPUTED BY INVARA OF 1972 WITH ALLWAG, MODEL 4: CAIN&SWENFY 120-TERM PDGD 8/69 * TIME= 1974.0 **
 ** VEHICLE : SATS ** INCLINATION= 0DEG ** PERIGEE= 800KM ** APOGEE= 11800KM ** B/L ORBIT TAPE: TD7036 ** PERIOD= 1.681 **

 ***** ELECTRONS *****
 ** TABLE OF PEAK AND TOTAL FLUXES PER PERIOD : ENERGY >.500 MEV **

PERIOD NUMBER	PEAK FLUX ENCOUNTERED #/CM**2/SEC	POSITION AT WHICH ENCOUNTERED LONGITUDE LATITUDE ALTITUDE (DEG) (DEG) (KM)	ORBIT TIME (HOURS)	FIELD(P) (GAUSS)	LINE(L) (E.R.)	TOTAL FLUX PER ORBIT #/CM**2/ORBIT
1	5.567E 03	-37.178 -0.00 794.26	0.31667	0.19597	1.19	4.230E 06
2	5.143E 03	-37.838 -0.00 790.18	2.11666	0.19661	1.20	3.930E 06
3	6.640E 03	-38.469 -0.00 786.22	3.91667	0.19725	1.20	3.701E 06
4	8.172E 03	-39.074 -0.00 782.18	5.71667	0.19762	1.20	3.573E 06
5	7.708E 03	-39.662 -0.00 781.67	7.51667	0.19827	1.20	3.555E 06
6	7.309E 03	-39.910 -0.00 782.19	9.33333	0.19884	1.19	3.241E 06
7	8.102E 03	-37.505 -0.00 784.51	11.13333	0.19692	1.19	3.489E 06
8	8.749E 03	-38.122 -0.00 782.09	12.93333	0.19692	1.20	3.895E 06
9	9.803E 03	-38.768 -0.00 792.22	14.73333	0.19691	1.20	4.382E 06
10	9.546E 03	-38.120 -0.00 796.51	16.54999	0.19533	1.19	4.324E 06
11	1.077E 04	-38.822 -0.00 799.09	18.34999	0.19541	1.19	4.537E 06
12	1.080E 04	-37.536 -0.00 800.00	20.14999	0.19566	1.20	3.486E 06
13	7.247E 03	-30.900 -0.00 799.92	20.16330	0.19361	1.18	2.263E 06
14	1.124E 04	-38.251 0.00 799.06	21.95000	0.19602	1.20	4.194E 06

 ** CRITICAL FLUX STUDY WITH COMPOSITE PARTICLE ENVIRONMENTS: VETTES AF5, AP6, AP7; AE4, AE5, FOR SOLAR MAXIMUM *** UNIFLX OF 1973 **
 ** ELECTRON FLUXES EXPONENTIALLY DECAYED TO 1970. C WITH LIFETIMES: E.G. STASSINOPOL, OSEP, VERZARIU ** CUTOFF TIMES: **
 ** MAGNETIC COORDINATES B AND L COMPUTED BY INVARA OF 1972 WITH ALLMAG, MODEL 4: CAINESEENNEY 120-TERM POGO 8/69 * TIME= 1974.0 **
 ** VEHICLE : SATS ** INCLINATION= 30DEG ** PERIGEE= 800KM ** APCGEE= 800KM ** R/I ORBIT TAPE: T07036 ** PERIOD= 1.681 **

 ***** LCB ENERGY FROTEINS *****
 ** TABLE OF PEAK AND TOTAL FLUXES PER PERIOD : ENERGY > 100 MEV **

PERIOD NUMBER	PEAK FLUX ENCOUNTERED #/CM**2/SEC	POSITION AT WHICH ENCOUNTERED LONGITUDE LATITUDE ALTITUDE (DEG) (DEG) (KM)	ORBIT TIME (HOURS)	FIELD(B) (GAUSS)	LINE(L) (E.R.)	TOTAL FLUX PER ORBIT #/CM**2/ORBIT
1	1.877E 02	-94.572 3.56 800.01	0.03333	0.23676	1.20	2.190E 04
2	3.146E 01	-118.545 4.33 799.99	1.21667	0.23351	1.16	5.139E 03
3	1.031E 03	37.781 -13.20 786.45	4.31667	0.23301	1.32	5.562E 05
4	7.116E 03	36.138 -23.75 790.62	6.11666	0.23277	1.61	5.581E 06
5	1.945E 04	26.456 -27.94 793.39	7.86666	0.22500	1.77	2.085E 07
6	2.594E 04	13.877 -29.65 792.30	9.60000	0.21705	1.80	3.550E 07
7	3.545E 04	-10.063 -29.76 795.45	11.28333	0.19964	1.62	4.611E 07
8	3.830E 04	-34.000 -29.85 795.60	12.96667	0.18365	1.40	4.263E 07
9	3.575E 04	-31.176 -27.64 798.30	14.76667	0.18276	1.38	3.617E 07
10	3.058E 04	-44.452 -24.46 798.85	16.50000	0.17498	1.27	2.785E 07
11	2.821E 04	-52.084 -17.31 799.20	18.26666	0.17541	1.21	1.851E 07
12	1.032E 04	-64.245 -10.17 799.24	20.01666	0.18571	1.20	5.855E 06
13	2.050E 03	-36.571 7.44 799.80	20.18330	0.21312	1.22	1.001E 06
14	5.824E 02	-59.925 8.19 799.82	21.86666	0.24192	1.36	1.305E 05

Table 154

 ** ORBITAL FLUX STUDY WITH COMPOSITE PARTICLE ENVIRONMENTS: VETTES AFS, AFS, AP7; AE4, AE5, FOR SOLAR MAXIMUM *** UNIFLX OF 1973 **
 ** ELECTRON FLUXES EXPONENTIALLY DECAYED TO 1970.0 WITH LIFETIMES: E.G. STASSINOPULOS & P. VERZARIU ** CUTOFF TIMES: **
 ** MAGNETIC COORDINATES R AND L COMPLIED BY INVAF OF 1972 WITH ALLMAG, MODEL 4; CAINESWEEKEY 120-TERM PDGO 8/69 * TIME= 1974.0 **
 ** VEHICLE : SATS ** INCLINATION= 30DEG ** PERIGEE= 800KM ** APCGEE= 800KM ** B/L ORBIT TAPE: TD7036 ** PERIOD= 1.681 **

 ***** HIGH ENERGY PROTONS *****
 ** TABLE OF PEAK AND TOTAL FLUXES PER PERIOD : ENERGY >5.00 MEV **

PERIOD NUMBER	PEAK FLUX ENCOUNTERED #/CM**2/SEC	POSITION AT WHICH ENCOUNTERED LONGITUDE LATITUDE ALTITUDE (DEG) (DEG) (KM)	ORBIT TIME (HOURS)	FIELD(B) (GAUSS)	LINE(L) (R.P.)	TOTAL FLUX PER ORBIT #/CM**2/ORBIT
1	5.795E 00	-127.479 -1.01 759.96	1.66667	0.2246E	1.12	1.735E 03
2	5.726E 00	-124.639 0.77 759.96	1.68333	0.22657	1.13	1.284E 03
3	1.297E 02	40.827 -14.81 756.91	4.33333	0.23569	1.35	5.563E 04
4	1.734E 03	32.717 -22.85 789.98	6.10000	0.22588	1.58	1.281E 06
5	5.433E 03	15.122 -26.32 792.13	7.83333	0.22073	1.70	5.978E 06
6	1.079E 04	-25.589 -19.77 788.52	9.41667	0.18368	1.31	1.231E 07
7	1.426E 04	-36.153 -25.21 791.31	11.16667	0.17663	1.32	1.562E 07
8	1.566E 04	-45.260 -28.15 793.38	12.90000	0.17721	1.30	1.530E 07
9	1.453E 04	-54.057 -29.97 796.20	14.66667	0.17951	1.30	1.333E 07
10	1.271E 04	-44.452 -24.46 758.85	16.50000	0.17458	1.27	9.907E 06
11	7.900E 03	-52.084 -17.31 759.20	18.26666	0.17541	1.21	5.552E 06
12	2.84E 03	-64.249 -10.17 759.24	20.01666	0.18971	1.20	1.377E 06
13	1.703E 02	-75.521 -4.20 759.30	21.75000	0.21161	1.19	1.024E 05
14	7.102E 01	-55.525 8.19 759.82	21.86664	0.24142	1.36	1.500E 04

 ** ORBITAL FLUX STUDY WITH COMPOSITE PARTICLE ENVIRONMENTS: VETTES AF5, AF6, AP7; AE4, AE5, F10 SOLAR MAXIMUM *** UNIFLX OF 1973 **
 ** ELECTRON FLUXES EXPONENTIALLY DECAYED TO 1970. C WITH LIFETIMES: E.G. STASSINOPOLUS & VERZAFIU ** CUTOFF TIMES: **
 ** MAGNETIC COORDINATES B AND L COMPUTED BY INVAFA OF 1972 WITH ALLMAG, MODEL 4: CAIRNSWEEKEY 120-TERM POGO 8/69 * TIME= 1974.0 **
 ** VEHICLE : SATS ** INCLINATION= 30DEG ** PERIGEE= 800KM ** APOGEE= 800KM ** R/L ORBIT TAPE: TD7C36 ** PERIOD= 1.691 **

 ***** ELECTRONS *****
 ** TABLE OF PEAK AND TOTAL FLUXES PER PERIOD : ENERGY > 500 MEV **

PERIOD NUMBER	PEAK FLUX ENCOUNTERED #/CM**2/SEC	POSITION AT WHICH ENCOUNTERED LONGITUDE LATITUDE ALTITUDE (DEG) (DEG) (KM)			ORBIT TIME (HOURS)	FIELD(B) (GAUSS)	LINE(L) (E.F.)	TOTAL FLUX PER ORBIT #/CM**2/ORBIT
1	8.354E 00	-127.479	-1.01	759.96	1.66667	0.22468	1.12	2.180E 03
2	7.085E 00	-124.639	0.77	759.96	1.68333	0.22657	1.13	1.154E 03
3	4.516E 01	14.521	0.75	784.76	4.18333	0.21865	1.15	2.001E 04
4	1.424E 05	26.069	-19.96	788.75	6.06667	0.32608	1.50	4.610E 07
5	6.381E 05	-4.578	-17.66	787.84	7.71667	0.20246	1.40	2.233E 08
6	1.437E 06	-15.552	-22.42	789.82	9.45000	0.18990	1.39	4.672E 08
7	1.957E 06	-28.952	-27.08	792.56	11.20000	0.18422	1.39	7.547E 08
8	2.312E 06	-34.000	-29.85	795.60	12.96667	0.18305	1.40	1.052E 09
9	2.144E 06	-27.509	-26.54	798.52	14.78333	0.18465	1.40	1.449E 09
10	7.556E 05	-44.452	-24.46	798.85	16.50000	0.17495	1.27	4.843E 08
11	5.374E 04	-36.974	-9.21	799.73	18.34999	0.18102	1.20	5.511E 07
12	3.580E 04	-64.245	-10.17	799.24	20.01666	0.16971	1.20	5.805E 06
13	4.556E 02	-62.786	-5.96	799.25	21.73331	0.20265	1.17	1.747E 05
14	3.392E 01	-107.152	-5.20	799.21	23.41664	0.21745	1.13	7.680E 03

Table 156

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** CIRCULAR FLUX STUDY WITH COMPOSITE PARTICLE PARAMETERS: VERTICES APT, APC, AP7; AFA, AFP, FOR SOLAR MAXIMUM *** UNIFLX OF .973 **
** ELICITING FLUXES EXPONENTIALLY DECAIED TO 1/20% OF INITIAL LIFETIME: FLS-STASSINORPOLUS60-VERZATIU ** CUTOFF TIMES:
** MAGNETIC COORDINATES R.A.M.C. OBTAINED BY I.VASA OF 1972 WITH ALLMAG-MODEL -4; GAINSAFE=120-YCRM POGS #169 * TIME= 1974.0
** VELOCITY : SATS ** INCLINATION= 80DEG ** PERIGEE= ROCKY ** APOGEE= 800KM ** BAL WHITE TAPE: TD7036 ** PERIOD= 1.691
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*** LOW ENERGY EMISSIONS ***
*** TABLE OF PEAK AND TOTAL FLUXES FOR PERIOD : ENERGY >.100 MEV ***

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REF ID NUMBER	PEAK FLUX ENCOUNTERED #ZCM**2/SEC	POSITION AT WHICH ENCOUNTERED LONGITUDE (DEG)	LATITUDE (DEG)	ALTITUDE (KM)	ORBIT TIME (HOURS)	FIELD (H) (GAUSS)	LINE(L) (E.C.)	TOTAL FLUX PER ORBIT #ZCM**2/ORBIT
1	4.1446 08	-11.153	59.95	806.99	0.41333	0.36253	4.52	1.6116 08
2	4.1540 05	-21.734	58.20	807.79	2.19000	0.36474	4.59	1.0846 08
3	6.0846 05	63.143	-53.72	805.52	4.51667	0.37304	4.78	1.7835 08
4	1.1400 06	44.213	-55.56	806.64	6.21667	0.26774	4.33	3.2176 08
5	1.6745 06	32.289	-59.84	806.11	7.93333	0.28586	4.31	4.5876 08
6	1.6531 06	28.539	-59.83	805.31	9.66667	0.28464	4.32	6.6786 08
7	4.0160 08	11.590	-59.13	809.47	11.26667	0.26465	3.59	2.5565 08
8	3.5210 05	10.642	-52.56	808.81	13.11667	0.24327	2.97	2.6546 08
9	1.3065 05	-12.563	-52.41	808.71	14.80000	0.23055	2.40	7.5465 07
10	4.7100 04	-23.193	-42.26	806.53	16.54999	0.20411	1.81	3.6516 07
11	3.7646 04	-37.240	-30.26	803.75	18.29999	0.19116	1.38	2.7245 07
12	2.4565 04	-55.189	-17.54	801.31	20.04999	0.17601	1.21	1.6026 07
13	7.3465 04	-17.6759	-57.56	807.60	21.34999	0.43423	5.10	1.4455 07
14	6.6220 04	-5.759	56.52	809.69	22.20000	0.35647	4.00	2.4085 07

 ** CAPITAL FLUX STUDY WITH COMPOSITE PARTICLE ENVIRONMENTS: VETTES AP5, AP6, AP7; AE4, AF5, FOR SOLAR MAXIMUM *** UNIFLX OF 1973 **
 ** ELECTRON FLUXES EXPONENTIALLY DECAYED TO 1970.0 WITH LIFETIMES: 8.6, STASSINOPOLUSEP, VERZARIU ** CUTOFF TIMES: **
 ** MAGNETIC COORDINATES E AND L COMPUTED BY INVASA OF 1972 WITH ALLVAG, MODEL 4: CAINESEFFNEY 120-TERM PDGC R/69 * TIME= 1974.0 **
 ** VEHICLE : SATE ** INCLINATION= 60DEG ** PERIGEE= 800KM ** APOGEE= 800KM ** R/L ORBIT TAPE: TD7C36 ** PERIOD= 1.691 **

***** HIGH ENERGY PROTONS *****
 ** TABLE OF PEAK AND TOTAL FLUXES PER PERIOD : ENERGY >5.00 MEV **

PERIOD NUMBER	PEAK FLUX ENCOUNTERED #/CM**2/SEC	POSITION AT WHICH ENCOUNTERED LONGITUDE LATITUDE ALTITUDE (DEG) (DEG) (KM)	ORBIT TIME (HOURS)	FIELD(B) (GAUSS)	LINE(L) (E.F.)	TOTAL FLUX PER ORBIT #/CM**2/ORBIT
1	5.451E 00	-126.860 -2.35 800.08	1.66667	0.22364	1.12	1.482E 03
2	4.189E 01	56.852 -27.21 795.74	2.66667	0.27000	1.74	1.419E 04
3	5.685E 03	33.731 -30.54 795.86	4.36666	0.23164	1.90	1.643E 06
4	1.046E 04	8.547 -31.72 796.33	6.05000	0.21356	1.84	4.357E 06
5	1.515E 04	-11.138 -26.15 799.19	7.76667	0.20500	1.84	8.644E 06
6	1.716E 04	-45.202 -27.46 795.43	9.34333	0.17684	1.30	1.033E 07
7	6.560E 03	-47.166 -49.71 803.89	11.20000	0.22213	1.80	4.901E 06
8	4.566E 03	26.806 -32.74 804.30	13.25000	0.23599	1.99	2.334E 06
9	1.060E 04	5.624 -24.81 804.78	14.91667	0.21076	1.55	5.570E 06
10	1.572E 04	-23.183 -42.28 806.57	16.54999	0.20411	1.81	1.013E 07
11	1.513E 04	-17.840 -20.78 807.75	18.29999	0.18116	1.38	9.664E 06
12	5.103E 03	-62.744 -29.59 803.57	19.98331	0.18309	1.23	5.000E 06
13	1.536E 03	-53.745 -22.96 802.19	21.70000	0.16912	1.21	4.392E 05
14	4.670E 01	-105.220 -15.95 801.05	23.41664	0.21544	1.16	1.266E 04

Table 158

 ** CRBITAL FLUX STUDY WITH COMPOSITE PARTICLE ENHANCEMENTS: VRTTES ARE, AP6, AP7: AP4, ACE, P73 SOLAR MAXIMUM *** UNIFLX OF 973 **
 ** ELECTRON FLUXES EXPONENTIALLY DECAYED TO 1970. C WITH LIFETIMES: P.G. STASSING PULSSE VFFZ49IU ** CUTOFF TIMES: **
 ** MAGNETIC COORDINATES H AND L COMPILED BY INVARA OF 1972 WITH ALLMAG, MODEL 4: CAIRNS WFFZ49 120-TERM POGS P/89 * TIME= 1974.0 **
 ** VEHICLE : SATS ** INCLINATION= CODEC ** PERIGEE= 800KM ** APOGEE= 800KM ** H/L ORBIT TYPE: TD7C36 ** PE-100= 1.681 **

 ** ELECTRONS *****
 ** TABLE OF PEAK AND TOTAL FLUXES PER PERIOD : ENERGY > .500 MEV **

PERIOD NUMBER	PEAK FLUX ENCOUNTERED #/CM**2/SEC	POSITION AT WHICH ENCOUNTERED LONGITUDE (CLG)	LATITUDE (CFG)	ALTITUDE (KM)	ORBIT TIME (HOURS)	FIELD(B)	LINE(L)	TOTAL FLUX PER ORBIT #/CM**2/ORBIT
						(GAUSS)	(E.R.)	
1	2.142E 05	-4.414	55.19	808.46	0.45000	0.38558	4.13	1.847E 08
2	2.376E 05	-15.749	55.92	807.13	2.16667	0.35865	3.98	1.379E 08
3	3.036E 05	55.514	-51.71	804.75	4.50000	0.32000	4.13	1.696E 08
4	4.811E 05	0.953	-19.94	793.30	5.99333	0.20744	1.45	2.632E 08
5	1.602E 06	-22.159	-23.65	794.31	7.63337	0.15734	1.39	5.818E 08
6	2.094E 06	-40.687	-33.25	797.39	9.41667	0.15275	1.41	8.512E 08
7	6.148E 05	-63.287	-36.95	798.71	11.13667	0.10601	1.38	3.407E 08
8	6.094E 04	175.558	55.42	808.54	12.20000	0.37330	3.18	4.155E 07
9	1.818E 05	15.438	-20.11	801.73	15.00000	0.23134	1.51	5.455E 07
10	6.954E 05	-5.558	-22.31	802.11	16.56667	0.10964	1.48	3.529E 08
11	2.813E 06	-37.640	-30.38	803.75	18.29999	0.19111	1.38	7.574E 08
12	5.258E 05	-67.270	-35.73	804.88	19.95000	0.15630	1.35	2.536E 08
13	1.487E 05	-156.587	-55.85	809.00	31.39999	0.41555	4.26	1.253E 08
14	2.465E 05	-5.756	55.62	805.98	22.20000	0.35847	4.00	1.788E 08

 ** ORBITAL FLUX STUDY WITH COMPOSITE PARTICLE ENVIRONMENTS: VETTES APS, AP6, AP7; AE4, AES, FOR SOLAR MAXIMUM *** UNIFLX OF 1973 **
 ** ELECTRON FLUXES EXPONENTIALLY DECAIED IC 1970. C WITH LIFETIMES: E.G. STASSINOPOLUS&P. VERZARIU ** CUTOFF TIMES: **
 ** MAGNETIC COORDINATES B AND L COMPUTED BY INVARA OF 1972 WITH ALLMAG, MODEL 4: CATINCSWEENEY 120-TERM POGO 8/69 * TIME= 1974.0 **
 ** VEHICLE : SATS ** INCLINATION= 50DEG ** PERIGEE= 800KM ** APOGEE= 800KM ** B/L ORBIT TAPE: TD7C36 ** PERIOD= 1.681 **

 ** LCM ENERGY PROTONS *****
 ** TABLE OF PEAK AND TOTAL FLUXES PER PERIOD : ENERGY > .100 MEV **

PERIOD NUMBER	PEAK FLUX ENCOUNTERED #/CM**2/SEC	POSITION AT WHICH ENCOUNTERED LONGITUDE (DEG)	LATITUDE (DEG)	ALTITUDE (KM)	ORBIT TIME (HOURS)	FIELD(B) (GAUSS)	LINE(L) (E.R.)	TOTAL FLUX PER ORBIT #/CM**2/ORBIT
1	6.149E 08	63.445	-52.17	806.49	1.08333	0.33434	4.44	1.222E 08
2	1.001E 06	37.625	-59.99	809.14	2.80000	0.29813	4.77	2.525E 08
3	1.405E 06	12.058	-64.25	810.47	4.50000	0.28515	4.27	3.470E 08
4	1.025E 06	-13.766	-72.07	812.58	6.21667	0.31235	4.59	2.424E 08
5	6.278E 05	-39.335	-76.32	813.53	7.91667	0.33806	4.54	1.612E 08
6	4.686E 05	-64.655	-77.01	813.67	9.60000	0.35426	4.57	1.010E 08
7	3.767E 05	-89.723	-74.12	813.07	11.26667	0.36527	4.47	7.567E 07
8	6.453E 05	61.848	-55.22	811.25	13.18333	0.33522	5.07	1.321E 08
9	1.420E 06	36.380	-58.11	811.99	14.85000	0.28532	4.37	2.789E 08
10	1.657E 06	11.562	-64.56	813.43	16.50000	0.28527	4.30	3.503E 08
11	5.713E 05	-13.256	-71.02	814.54	18.14999	0.30586	4.39	2.438E 08
12	6.883E 05	-36.324	-73.91	814.93	19.81667	0.32551	4.34	1.677E 08
13	4.957E 05	-63.393	-76.80	815.23	21.48331	0.35233	4.60	9.770E 07
14	3.610E 05	-88.712	-76.12	815.19	23.16664	0.36993	5.01	6.386E 07

Table 160

 ** ORBITAL FLUX STUDY WITH COMPOSITE PARTICLE ENVIRONMENTS: VETTES APS, AP6, AP7; AE4, AES, FOR SOLAR MAXIMUM **** UNIFLX OF 1973 **
 ** ELECTRON FLUXES EXPONENTIALLY DECAYED TO 1970. G WITH LIFETIMES: E.G. STASSINCPGULCSEP, VERZARIO ** CUTOFF TIMES: **
 ** MAGNETIC COORDINATES B AND L COMPLIED BY INVVAR OF 1972 WITH ALLMAG, NCOLL 4; CAINE SWEENEY 120-TERM POGG 8/69 * TIME= 1974.0 **
 ** VEHICLE : SATS ** INCLINATION= 50DEG ** PERICEE= 800KM ** APCGEE= 800KM ** B/L ORBIT TAPE: TD7C36 ** PERIOD= 1.681 **

***** HIGH ENERGY PROTONS *****
 ** TABLE OF PEAK AND TOTAL FLUXES PER PERIOD : ENERGY >5.00 MEV **

PERIOD NUMBER	PEAK FLUX ENCOUNTERED #/CM**2/SEC	POSITION AT WHICH ENCOUNTERED LONGITUDE LATITUDE ALTITUDE (DEG) (DEG) (KM)	ORBIT TIME (HOURS)	FIELD(B) (GAUSS)	LINE(L) (E.F.)	TOTAL FLUX PER ORBIT #/CM**2/ORBIT
1	7.599E 00	-124.827 -10.03 800.54	1.63333	0.22347	1.13	1.840E 03
2	3.811E 03	35.620 -31.41 799.28	2.66667	0.23936	1.93	9.029E 05
3	1.024E 04	14.311 -32.09 799.48	4.35000	0.21720	1.89	2.906E 06
4	1.870E 04	-11.509 -39.52 802.09	6.06667	0.20661	1.89	6.794E 06
5	1.489E 04	-36.076 -29.88 798.75	7.70000	0.18181	1.38	8.518E 06
6	1.010E 04	-61.396 -30.56 798.95	9.38333	0.18361	1.29	4.800E 06
7	8.498E 02	-86.715 -31.28 799.14	11.06667	0.21588	1.30	2.843E 05
8	3.489E 03	59.944 -33.81 805.41	13.28333	0.28776	2.11	1.041E 04
9	5.105E 03	34.625 -33.13 805.26	14.96667	0.23326	2.01	1.326E 06
10	1.118E 04	5.306 -32.45 805.11	16.68999	0.21379	1.87	3.553E 06
11	1.662E 04	-15.513 -38.90 806.88	18.29999	0.20283	1.80	7.688E 06
12	1.956E 04	-41.583 -27.52 803.94	20.03331	0.17723	1.32	9.092E 06
13	6.502E 03	-66.651 -30.40 804.67	21.70000	0.18734	1.29	3.358E 06
14	3.235E 02	-91.571 -29.72 804.52	23.38332	0.22055	1.28	1.269E 05

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Table 161

 ** CRITICAL FLUX STUDY WITH COMPOSITE PARTICLE ENVIRONMENTS: VETTER APS, AP6, AP7; AE4, AES, FOR SOLAR MAXIMUM *** UNIFLX OF 1973 **
 ** ELECTRON FLUXES EXPONENTIALLY DECAYED TO 1970.0 WITH LIFETIMES: E.G. STASSINOPOLSEPAVERZARIU ** CUTOFF TIMES: **
 ** MAGNETIC COORDINATES B AND L COMPUTED BY INVAF4 OF 1972 WITH ALLMAG, MODEL 4: CAINGSWEEENEY 120-TERM PDGQ 8/69 * TIME= 1974.0 **
 ** VEHICLE : SATS ** INCLINATION= 50DEG ** PERIGEE= 800KM ** ARGEE= 800KM ** B/L ORBIT TAPE: TD7C36 ** PERIOD= 1.681 **

 ELECTRONS *****
 ** TABLE OF PEAK AND TOTAL FLUXES PER PERIOD : ENERGY > 500 MEV **

PERIOD NUMBER	PEAK FLUX ENCOUNTERED #/CM**2/SEC	POSITION AT WHICH ENCOUNTERED LONGITUDE LATITUDE ALTITUDE (DEG) (DEG) (KM)	ORBIT TIME (HOURS)	FIELD(B) (GAUSS)	LINE(L) (E.R.)	TOTAL FLUX PER ORBIT #/CM**2/ORBIT
1	2.783E 08	62.445 -52.17 806.49	1.08333	0.33434	4.44	1.257E 08
2	3.704E 08	37.875 -56.42 807.96	2.78333	0.28665	4.15	1.636E 08
3	3.712E 08	12.055 -64.25 810.47	4.50000	0.28515	4.27	2.059E 08
4	5.944E 08	-10.256 -22.05 756.61	5.58333	0.15700	1.45	3.559E 08
5	2.152E 08	-36.076 -29.88 758.75	7.70000	0.18181	1.38	6.343E 08
6	1.031E 08	-61.897 -37.71 801.30	9.41667	0.15646	1.40	3.216E 08
7	2.305E 08	-85.723 -74.12 813.07	11.26667	0.36527	4.47	1.074E 08
8	2.884E 08	61.193 -51.65 810.33	13.20000	0.32653	4.23	1.228E 08
9	3.621E 08	36.380 -58.11 811.99	14.85000	0.28932	4.37	1.674E 08
10	3.888E 08	11.562 -64.56 813.43	16.50000	0.22587	4.30	2.235E 08
11	1.295E 08	-16.765 -21.06 802.50	18.38332	0.19046	1.39	4.342E 08
12	2.101E 08	-41.332 -31.08 804.82	20.01666	0.18055	1.27	6.155E 08
13	7.116E 08	-66.150 -37.54 806.56	21.66664	0.19676	1.39	2.511E 08
14	2.378E 08	-86.562 -72.55 814.81	23.18330	0.35522	4.05	1.625E 08

Table 162

 ** ORBITAL FLUX STUDY WITH COMPOSITE PARTICLE ENVIRONMENTS: VETTES APS, AP6, AP7; AE4, AE5, FOR SOLAR MAXIMUM **** UNIFLX OF 1973 **
 ** ELECTRON FLUXES EXPONENTIALLY DECAYED TO 1970. 0 WITH LIFETIMES: E.G. STASSINOPOULOS&P. VERZARIU ** CUTOFF TIMES: **
 ** MAGNETIC COORDINATES B AND L COMPUTED BY INVARA OF 1972 WITH ALLMAG, MODEL 4: CAIN&SWEENEY 120-TERM POGO 8/69 * TIME= 1974.0 **
 ** VEHICLE: 1 SATS. ** INCLINATION= .0DEG ** PERIGEE= 1000KM ** APDGE= 1000KM ** B/L ORBIT TAPE: TD7372 ** PERIOD= 1.752 **

***** LOW ENERGY PROTONS *****

** TABLE OF PEAK AND TOTAL FLUXES PER PERIOD : ENERGY >.100 MEV **

PERIOD NUMBER	PEAK FLUX ENCOUNTERED #/CM**2/SEC	POSITION AT WHICH ENCOUNTERED LONGITUDE LATITUDE ALTITUDE (DEG) (DEG) (KM)	ORBIT TIME (HOURS)	FIELD(B) (GAUSS)	LINE(L) (E.R.)	TOTAL FLUX PER ORBIT #/CM**2/ORBIT
1	2.063E 04	-23.991 -0.00 992.25	0.40000	0.17982	1.20	2.217E 07
2	2.030E 04	-24.379 -0.00 988.01	2.28333	0.18011	1.20	2.180E 07
3	2.019E 04	-24.737 -0.00 984.46	4.16667	0.18036	1.20	2.097E 07
4	2.002E 04	-25.073 -0.00 982.39	6.05000	0.18050	1.20	2.060E 07
5	1.985E 04	-25.402 -0.00 982.27	7.93333	0.18050	1.20	2.065E 07
6	2.021E 04	-22.548 -0.00 984.48	9.83333	0.18057	1.20	2.097E 07
7	2.036E 04	-22.906 -0.00 988.05	11.71667	0.18025	1.20	2.164E 07
8	2.065E 04	-23.294 -0.00 992.28	13.60000	0.17989	1.20	2.243E 07
9	2.095E 04	-23.713 -0.00 996.24	15.48333	0.17955	1.20	2.311E 07
10	2.120E 04	-24.158 -0.00 999.02	17.36666	0.17931	1.20	2.273E 07
11	2.124E 04	-24.617 0.00 1000.00	19.25000	0.17920	1.20	1.786E 07
12	2.030E 04	-18.268 0.00 999.93	19.28331	0.18032	1.20	1.465E 07
13	2.122E 04	-25.075 0.00 998.97	21.13332	0.17926	1.20	1.829E 07

 ** ORBITAL FLUX STUDY WITH COMPOSITE PARTICLE ENVIRONMENTS: VETTES AP5, AP6, AP7; AE4, AES, FOR SOLAR MAXIMUM **** UNIFLX OF 1973 **
 ** ELECTRON FLUXES EXPONENTIALLY DECAYED TO 1970. 0 WITH LIFETIMES: S.G. STASSINOPOULOS & P. VERZARIU ** CUTOFF TIMES: **
 ** MAGNETIC COORDINATES B AND L COMPUTED BY INVARA OF 1972 WITH ALLMAG, MODEL 4: CAIN & SWEENEY 120-TERM PDG0 8/69 * TIME= 1974.0 **
 ** VEHICLE : SATS ** INCLINATION= 0 DEG ** PERIGEE= 1000 KM. ** APOGEE= 1000 KM. ** B/L ORBIT TAPE: TD7372 ** PERIOD= 1.752 **

***** HIGH-ENERGY PROTONS *****
 ** TABLE OF PEAK AND TOTAL FLUXES PER PERIOD : ENERGY >5.00 MEV **

PERIOD NUMBER	PEAK FLUX ENCOUNTERED #/CM**2/SEC	POSITION AT WHICH ENCOUNTERED LONGITUDE (DEG)	LATITUDE (DEG)	ALTITUDE (KM)	ORBIT TIME (HOURS)	FIELD(B) (GAUSS)	LINE(L) (E.R.)	TOTAL FLUX PER ORBIT #/CM**2/ORBIT
1	6.041E 03	-27.172	-0.00	992.78	0.38333	0.17973	1.21	6.303E 06
2	5.916E 03	-24.379	-0.00	988.01	2.28333	0.18011	1.20	6.110E 06
3	5.879E 03	-24.737	-0.00	984.46	4.16667	0.18036	1.20	5.914E 06
4	5.824E 03	-25.073	-0.00	982.39	6.05000	0.18050	1.20	5.800E 06
5	5.770E 03	-25.402	-0.00	982.27	7.93333	0.18050	1.20	5.809E 06
6	5.871E 03	-25.736	-0.00	984.13	9.81667	0.18035	1.20	5.893E 06
7	5.956E 03	-26.091	-0.00	987.55	11.70000	0.18009	1.20	6.091E 06
8	6.044E 03	-26.475	-0.00	991.75	13.58333	0.17978	1.20	6.322E 06
9	6.151E 03	-23.713	-0.00	996.24	15.48333	0.17955	1.20	6.527E 06
10	6.257E 03	-24.158	-0.00	999.02	17.36664	0.17931	1.20	6.421E 06
11	6.283E 03	-24.617	0.00	1000.00	19.25000	0.17920	1.20	5.075E 06
12	5.890E 03	-18.268	0.00	999.93	19.28331	0.18032	1.20	3.990E 06
13	6.289E 03	-25.075	0.00	998.97	21.13332	0.17926	1.20	5.177E 06

Table 164

 ** ORBITAL FLUX STUDY WITH COMPOSITE PARTICLE ENVIRONMENTS: VETTES AP5, AP6, AP7; AE4, AE5. FOR SOLAR MAXIMUM **** UNIFLX OF 1973 **
 ** ELECTRON FLUXES EXPONENTIALLY DECAYED TO 1970. 0 WITH LIFETIMES: E.G. STASSINGPOULOS&P. VERZARIU ** CUTOFF TIMES: **
 ** MAGNETIC COORDINATES B AND L COMPUTED BY INVARA OF 1972 WITH ALLMAG. MODEL 4: CAIN&SWEENEY 120-TERM PDGO 8/69 * TIME= 1974.0 **
 ** VEHICLE: SATS. *** INCLINATION= 0DEG ** PERIGEE= 1000KM ** APOGEE= 1000KM ** B/L ORBIT TAPE: TD7372 ** PERIOD= 1.752 **

 ELECTRONS

** TABLE OF PEAK AND TOTAL FLUXES PER PERIOD : ENERGY >.500 MEV **

PERIOD NUMBER	PEAK FLUX ENCOUNTERED #/CM**2/SEC	POSITION AT WHICH ENCOUNTERED			ORBIT TIME (HOURS)	FIELD(B) (GAUSS)	LINE(L) (E.R.)	TOTAL FLUX PER ORBIT #/CM**2/ORBIT
		LONGITUDE (DEG)	LATITUDE (DEG)	ALTITUDE (KM)				
1	1.129E 05	-20.810	-0.00	991.71	0.41667	0.18032	1.20	9.690E 07
2	1.065E 05	-21.194	-0.00	987.51	2.30000	0.18056	1.20	9.048E 07
3	1.004E 05	-21.548	-0.00	984.11	4.18333	0.18076	1.20	8.544E 07
4	1.002E 05	-21.883	-0.00	982.26	6.06667	0.18084	1.20	8.261E 07
5	9.990E 04	-22.211	-0.00	982.40	7.95000	0.18078	1.20	8.122E 07
6	1.055E 05	-22.548	-0.00	984.48	9.83333	0.18057	1.20	8.359E 07
7	1.001E 05	-19.721	-0.00	988.56	11.73333	0.18080	1.20	8.438E 07
8	1.127E 05	-20.113	-0.00	992.81	13.61667	0.18039	1.20	9.125E 07
9	1.028E 05	-17.359	-0.00	997.07	15.51667	0.18081	1.20	9.278E 07
10	1.070E 05	-46.389	-0.00	996.67	17.25000	0.18776	1.25	9.146E 07
11	1.073E 05	-46.836	-0.00	999.25	19.13332	0.18790	1.26	6.999E 07
12	1.109E 05	-47.296	0.00	999.98	21.01666	0.18818	1.26	7.442E 07
13	1.028E 05	-44.122	0.00	999.93	21.03331	0.18591	1.25	5.425E 07

 ** ORBITAL FLUX STUDY WITH COMPOSITE PARTICLE ENVIRONMENTS: VETTES AP5, AP6, AP7; AE4, AES, FOR SOLAR MAXIMUM **** UNIFLX OF 1973 **
 ** ELECTRON FLUXES EXPONENTIALLY DECAYED TO 1970-0 WITH LIFETIMES: E.G. STASSING, PULOS, VERZARIU ** CUTOFF TIMES: **
 ** MAGNETIC COORDINATES B AND L COMPUTED BY INVARA OF 1972 WITH ALLMAG, MODEL 4: CAINESWEELEY 120-TERM POGO 8/69 * TIME= 1974.0 **
 ** VEHICLE : SATS .. ** INCLINATION= 30DEG. ** PERIGEE= 1000KM ** APOGEE= 1000KM ** B/L ORBIT TAPE: TD7372-22 PERIOD= 1.752 **

***** LOW ENERGY PROTONS *****

** TABLE OF PEAK AND TOTAL FLUXES PER PERIOD : ENERGY >.100 MEV **

PERIOD NUMBER	PEAK FLUX ENCOUNTERED #/CM**2/SEC	POSITION AT WHICH ENCOUNTERED LONGITUDE (DEG)	LATITUDE (DEG)	ALTITUDE (KM)	ORBIT TIME (HOURS)	FIELD(B) (GAUSS)	LINE(L) (E.R.)	TOTAL FLUX PER ORBIT #/CM**2/ORBIT
1	1.903E 03	-97.513	1.72	1000.00	0.01667	0.21386	1.21	1.320E 06
2	1.060E 03	7.954	-18.27	988.61	2.43333	0.22044	1.20	1.353E 06
3	6.154E 03	29.573	-10.14	986.13	4.46667	0.20968	1.30	6.643E 06
4	1.951E 04	27.444	-22.15	990.07	6.35000	0.21124	1.59	2.690E 07
5	3.870E 04	-16.961	-13.94	987.02	8.00000	0.17644	1.31	5.892E 07
6	5.821E 04	-31.032	-20.05	989.08	9.81667	0.16794	1.31	8.479E 07
7	7.037E 04	-33.771	-27.68	993.26	11.68333	0.17003	1.40	9.528E 07
8	6.996E 04	-37.874	-30.11	996.41	13.63333	0.17023	1.41	8.547E 07
9	6.710E 04	-38.364	-27.36	998.63	15.40000	0.16757	1.37	7.725E 07
10	5.380E 04	-47.614	-22.10	999.23	17.23331	0.16338	1.28	5.685E 07
11	3.562E 04	-58.423	-14.88	999.35	19.06667	0.16850	1.23	3.462E 07
12	1.500E 04	-75.970	-9.82	999.32	20.86664	0.18456	1.21	1.372E 07
13	6.305E 03	-48.577	7.20	999.81	21.03331	0.20970	1.33	4.140E 06

Table 166

 ** ORBITAL FLUX STUDY WITH COMPOSITE PARTICLE ENVIRONMENTS: VETTES AP5, AP6, AP7; AE4, AE5, FOR SOLAR MAXIMUM *** UNIFLX OF 1973 **
 ** ELECTRON FLUXES EXPONENTIALLY DECAYED TO 1970, 0 WITH LIFETIMES: E.G. STASSINOPOULOS & P. VERZARIU ** CUTOFF TIMES: **
 ** MAGNETIC COORDINATES B AND L COMPUTED BY INVARA OF 1972 WITH ALLMAG, MODEL 4: CAIN & SWEENEY 120-TERM POGO 8/69 * TIME = 1974.0 **
 ** VEHICLE 1 SATS ** INCLINATION = 30 DEG ** PERIGEE = 1000 KM ** APOGEE = 1000 KM ** B/L ORBIT TAPE: TD7372 ** PERIOD = 1.752 **

 ***** HIGH ENERGY PROTONS *****
 ** TABLE OF PEAK AND TOTAL FLUXES PER PERIOD : ENERGY > 5.00 MEV **

PERIOD NUMBER	PEAK FLUX ENCOUNTERED #/CM**2/SEC	POSITION AT WHICH ENCOUNTERED LONGITUDE (DEG)	LATITUDE (DEG)	ALTITUDE (KM)	ORBIT TIME (HOURS)	FIELD(B) (GAUSS)	LINE(L) (E.R.)	TOTAL FLUX PER ORBIT #/CM**2/ORBIT
1	1.259E 02	-97.513	1.72	1000.00	0.01667	0.21386	1.21	1.061E 05
2	9.834E 01	-7.993	24.54	991.61	2.35000	0.23590	1.33	1.216E 05
3	1.688E 03	29.573	-10.14	986.13	4.46667	0.20968	1.30	1.406E 06
4	6.292E 03	3.437	-10.44	986.19	6.21667	0.19242	1.31	7.930E 06
5	1.722E 04	-16.961	-13.94	987.02	8.00000	0.17644	1.31	1.926E 07
6	2.694E 04	-31.032	-20.05	989.08	9.81667	0.16794	1.31	2.967E 07
7	3.190E 04	-44.128	-25.03	991.49	11.63333	0.16508	1.31	3.463E 07
8	2.929E 04	-37.874	-30.11	996.41	13.53333	0.17023	1.41	3.247E 07
9	2.693E 04	-38.364	-27.36	998.63	15.40000	0.16757	1.37	3.046E 07
10	2.436E 04	-47.614	-22.10	999.23	17.23331	0.16338	1.28	2.325E 07
11	1.231E 04	-58.423	-14.88	999.35	19.06667	0.16850	1.23	1.126E 07
12	4.312E 03	-75.970	-9.82	999.32	20.86664	0.18456	1.21	3.617E 06
13	1.717E 03	-48.577	7.20	999.81	21.03331	0.20970	1.33	8.318E 05

Table 167

 ** ORBITAL FLUX STUDY WITH COMPOSITE PARTICLE ENVIRONMENTS: VETTES AP5, AP6, AP7; AE4, AE5, FOR SOLAR MAXIMUM **** UNIFLX OF 1973 **
 ** ELECTRON FLUXES EXPONENTIALLY DECAYED TO 1970-0 WITH LIFETIMES: E.G. STASSINOPOULOS & P. VERZARIU ** CUTOFF TIMES: **
 ** MAGNETIC COORDINATES B AND L COMPUTED BY INVARA OF 1972 WITH ALLMAG. MODEL 4: CAIN & SWEENEY 120-TERM PDGO 8/69 * TIME= 1974.0 **
 ** VEHICLE : SATS ** INCLINATION= 30 DEG ** PERIGEE= 1000 KM ** APOGEE= 1000 KM ** B/L ORBIT TAPE: TD7372 ** PERIOD= 1.752 **

***** ELECTRONS *****

** TABLE OF PEAK AND TOTAL FLUXES PER PERIOD : ENERGY > .500 MEV **

PERIOD NUMBER	PEAK FLUX ENCOUNTERED #/CM**2/SEC	POSITION AT WHICH ENCOUNTERED			ORBIT TIME (HOURS)	FIELD(B) (GAUSS)	LINE(L) (E.R.)	TOTAL FLUX PER ORBIT #/CM**2/ORBIT
		LONGITUDE (DEG)	LATITUDE (DEG)	ALTITUDE (KM)				
1	2.704E 02	-126.383	0.32	999.96	1.75000	0.20894	1.15	1.053E 05
2	2.609E 02	-123.666	2.04	999.97	1.76667	0.21125	1.16	1.318E 06
3	1.458E 05	44.163	-17.89	988.30	4.55000	0.22350	1.45	4.577E 07
4	7.930E 05	12.082	-15.20	987.39	6.26667	0.20010	1.40	3.246E 08
5	2.043E 06	-8.029	-18.41	988.46	8.05000	0.18457	1.41	8.782E 08
6	3.656E 06	-24.681	-22.69	990.22	9.85000	0.17263	1.38	1.563E 09
7	4.745E 06	-33.771	-27.68	993.26	11.68333	0.17003	1.40	2.141E 09
8	4.706E 06	-41.882	-30.02	996.95	13.51667	0.16908	1.39	2.823E 09
9	4.655E 06	-41.896	-28.09	998.41	15.38333	0.16713	1.36	4.116E 09
10	1.829E 06	-50.846	-23.29	999.15	17.21666	0.16391	1.28	1.488E 09
11	2.649E 05	-52.659	-11.74	999.38	19.09999	0.16936	1.23	2.087E 08
12	9.950E 04	-56.788	2.09	999.59	20.98331	0.20172	1.30	5.334E 07
13	5.911E 04	-48.577	7.20	999.81	21.03331	0.20970	1.33	1.140E 07

Table 168

 ** ORBITAL FLUX STUDY WITH COMPOSITE PARTICLE ENVIRONMENTS: VETTES AP5, AP6, AP7; AE4, AE5, FOR SOLAR MAXIMUM *** UNIFLX OF 1973 **
 ** ELECTRON FLUXES EXPONENTIALLY DECAYED TO 1970, 0 WITH LIFETIMES: E.G. STASSINOPOULOS6P, VERZARIU ** CUTOFF TIMES: - - - - - **
 ** MAGNETIC COORDINATES B AND L COMPUTED BY INVARA OF 1972 WITH ALLMAG, MODEL 4: CAINSWHEENEY 120-TERM POGO 8/69 * TIME= 1974.0 **
 ** VEHICLE : SATS ** INCLINATION= 60DEG ** PERIGEE= 1000KM ** APOGEE= 1000KM ** B/L ORBIT TAPE: TD7372 *** PERIOD= 1.752 ***

***** LOW ENERGY PROTONS *****

** TABLE OF PEAK AND TOTAL FLUXES PER PERIOD : ENERGY > 100 MEV **

PERIOD NUMBER	PEAK FLUX ENCOUNTERED #/CM**2/SEC	POSITION AT WHICH ENCOUNTERED			ORBIT TIME (HOURS)	FIELD(B) (GAUSS)	LINE(L) (E.R.)	TOTAL FLUX PER ORBIT #/CM**2/ORBIT
		LONGITUDE (DEG)	LATITUDE (DEG)	ALTITUDE (KM)				
1	6.457E 05	-12.022	60.02	1009.11	0.45000	0.33543	4.86	3.396E 08
2	6.853E 05	-19.770	57.71	1007.66	2.25000	0.33432	4.59	2.513E 08
3	1.239E 06	58.392	-53.08	1005.51	4.70000	0.30116	4.51	3.613E 08
4	1.557E 06	41.787	-56.52	1007.05	6.48333	0.27639	4.42	5.389E 08
5	1.427E 06	33.192	-59.66	1008.75	8.28333	0.27281	4.59	7.785E 08
6	2.050E 06	26.447	-59.76	1009.58	10.08333	0.26486	4.30	1.107E 09
7	6.739E 05	18.057	-56.81	1009.51	11.88333	0.24729	3.69	4.539E 08
8	4.023E 05	1.622	-53.47	1009.01	13.66667	0.22716	2.84	2.773E 08
9	1.233E 05	-24.801	-53.42	1008.99	15.41667	0.21836	2.30	1.034E 08
10	7.298E 04	-25.578	-34.18	1004.65	17.29999	0.18008	1.69	7.029E 07
11	6.739E 04	-45.960	-25.70	1002.77	19.09999	0.16460	1.32	5.612E 07
12	1.910E 05	-163.796	-58.09	1007.80	20.50000	0.38696	4.41	7.798E 07
13	2.243E 05	-164.696	-60.05	1009.41	22.31667	0.39133	4.99	1.109E 08

Table 169

 ** ORBITAL FLUX STUDY WITH COMPOSITE PARTICLE ENVIRONMENTS: VETTES APS, AP6, AP7; AE4, AE5, FOR SOLAR MAXIMUM *** UNIFLX OF 1973 **
 ** ELECTRON FLUXES EXPONENTIALLY DECAYED TO 1970. 0 WITH LIFETIMES: E.G. STASSINOPOULOS & P. VERZARIU *** CUTOFF-TIMES: *****
 ** MAGNETIC COORDINATES B AND L COMPUTED BY INVARA OF 1972 WITH ALLMAG. MODEL 4: CAIN & SWEENEY 120-TERM PGD 8/69 * TIME= 1974.0 **
 ** VEHICLE : SATS ** INCLINATION= 60 DEG ** PERIGEE= 1000 KM ** APOGEE= 1000 KM ** B/L ORBIT IARE: ID7372 ** PERIOD= 1.752 **

***** HIGH ENERGY PROTONS *****

** TABLE OF PEAK AND TOTAL FLUXES PER PERIOD : ENERGY >5.00 MEV **

PERIOD NUMBER	PEAK FLUX ENCOUNTERED #/CM**2/SEC	POSITION AT WHICH ENCOUNTERED			ORBIT TIME (HOURS)	FIELD(B) (GAUSS)	LINE(L) (E.R.)	TOTAL FLUX PER-ORBIT #/CM**2/ORBIT
		LONGITUDE (DEG)	LATITUDE (DEG)	ALTITUDE (KM)				
1	9.624E 01	-132.672	-11.83	1000.64	1.68333	0.21351	1.17	4.530E 04
2	1.498E 03	55.400	-28.06	995.81	2.78333	0.24960	1.82	5.969E 06
3	1.064E 04	30.925	-30.95	996.76	4.55000	0.21603	1.92	4.461E 06
4	1.947E 04	6.592	-33.79	997.75	6.31667	0.20118	1.90	1.104E 07
5	2.593E 04	-29.482	-19.62	993.48	7.98333	0.16840	1.32	1.889E 07
6	2.804E 04	-52.450	-25.49	995.04	9.76667	0.16532	1.29	1.913E 07
7	1.084E 04	-51.611	-51.29	1004.72	11.68333	0.21590	1.89	8.865E 06
8	1.078E 04	29.555	-31.56	1004.05	13.81667	0.21468	1.95	6.070E 06
9	2.075E 04	3.073	-31.49	1004.03	15.56667	0.19720	1.80	1.302E 07
10	2.439E 04	-25.578	-34.18	1004.65	17.29999	0.18008	1.59	2.125E 07
11	3.240E 04	-45.960	-25.70	1002.77	19.09999	0.16460	1.32	1.987E 07
12	1.013E 04	-67.274	-16.93	1001.21	20.89999	0.17166	1.22	6.983E 06
13	1.817E 03	-95.417	-19.78	1001.65	22.63332	0.19532	1.21	8.927E 05

 ** ORBITAL FLUX STUDY WITH COMPOSITE PARTICLE ENVIRONMENTS: VETTES AP5, AP6, AP7; AE4, AE5, FOR SOLAR MAXIMUM *** UNIFLX OF 1973 **
 ** ELECTRON FLUXES EXPONENTIALLY DECAYED TO 1970.0 WITH LIFETIMES: E.G. STASSINOPOULOS & P. VERZARIU ** CUTOFF TIMES: **
 ** MAGNETIC COORDINATES B AND L COMPUTED BY INVARA OF 1972 WITH ALLMAG, MODEL 4: CAINESWEELEY 120-TERM POGO 8/69 * TIME= 1974.0 **
 ** VEHICLE-1 SATS- ** INCLINATION= 60DEG ** PERIGEE= 1000KM ** APOGEE= 1000KM ** B/L ORBIT TAPE: TD7372 ** PERIGEE= 1.762 **

 ELECTRONS *****
 ** TABLE OF PEAK AND TOTAL FLUXES PER PERIOD : ENERGY >.500 MEV **

PERIOD NUMBER	PEAK FLUX ENCOUNTERED #/CM**2/SEC	POSITION AT WHICH ENCOUNTERED -- LONGITUDE (DEG)	LATITUDE (DEG)	ALTITUDE (KM)	ORBIT TIME (HOURS)	FIELD(B) (GAUSS)	LINE(L) (E.P.)	TOTAL FLUX PER ORBIT #/CM**2/ORBIT
1	2.940E 05	0.711	58.82	1008.24	0.48333	0.33054	4.03	2.375E 08
2	2.942E 05	14.266	56.34	1006.99	2.26667	0.32897	3.99	1.942E 08
3	4.948E 05	21.859	-16.54	992.79	4.46667	0.20643	1.44	3.076E 08
4	1.713E 06	-4.636	-16.62	992.81	6.21667	0.18666	1.39	6.483E 08
5	3.853E 06	-27.763	-22.53	994.21	8.00000	0.17032	1.36	1.355E 09
6	4.150E 06	-48.628	-31.16	996.84	9.80000	0.16960	1.37	1.609E 09
7	1.362E 06	-70.526	-36.71	998.83	11.58333	0.19131	1.41	6.072E 08
8	2.505E 05	38.704	-17.22	1001.28	13.90000	0.21691	1.44	1.091E 08
9	8.256E 05	12.209	-17.14	1001.26	15.65000	0.19952	1.44	2.359E 08
10	3.065E 06	-16.938	-20.00	1001.71	17.38332	0.17747	1.39	1.058E 09
11	4.169E 06	-47.868	-28.55	1003.36	19.08331	0.16657	1.34	1.731E 09
12	6.391E 05	-78.636	-34.05	1004.60	20.79999	0.19530	1.36	4.625E 08
13	2.428E 05	11.908	59.44	1009.71	21.39999	0.33222	3.68	2.311E 08

Table 171

 ** ORBITAL FLUX STUDY WITH COMPOSITE PARTICLE ENVIRONMENTS: VETTES AP5, AP6, AP7; AE4, AES, FOR SOLAR MAXIMUM *** UNIFLX OF 1973 **
 ** ELECTRON FLUXES EXPONENTIALLY DECAYED TO 1970-0 WITH LIFETIMES: E.G. STASSINOPoulos66P, VERZARIU ** CUTOFF TIMES: **
 ** MAGNETIC COORDINATES B AND L COMPUTED BY INVARA OF 1972 WITH ALLMAG, MODEL 4: CAINE&SWEENEY 120-TERM POGO 8/69 * TIME= 1974.0 **
 ** VEHICLE: SATS ** INCLINATION= 90DEG ** PERIGEE= 1000KM ** APOGEE= 1000KM ** B/L ORBIT TAPE: ID7372 ** PERIOD= 1.752 **

***** LOW ENERGY PROTONS *****

** TABLE OF PEAK AND TOTAL FLUXES PER PERIOD : ENERGY >.100 MEV **

PERIOD NUMBER	PEAK FLUX ENCOUNTERED #/CM**2/SEC	POSITION AT WHICH ENCOUNTERED			ORBIT TIME (HOURS)	FIELD(B) (GAUSS)	LINE(L) (E.R.)	TOTAL FLUX PER ORBIT #/CM**2/ORBIT
		LONGITUDE (DEG)	LATITUDE (DEG)	ALTITUDE (KM)				
1	9.120E 05	62.724	-53.22	1006.99	1.13333	0.31157	4.75	2.400E 08
2	1.240E 06	36.152	-56.46	1008.10	2.90000	0.26717	4.18	4.392E 08
3	1.390E 06	9.078	-66.52	1011.28	4.70000	0.27437	4.62	4.971E 08
4	1.057E 06	-17.746	-73.16	1013.00	6.48333	0.29469	4.85	3.995E 08
5	7.951E 05	-44.318	-76.38	1013.70	8.25000	0.31404	5.07	3.074E 08
6	7.366E 06	-70.640	-76.19	1013.67	10.00000	0.32709	4.94	2.158E 08
7	5.807E 05	-96.711	-72.59	1012.88	11.73333	0.33854	4.45	1.926E 08
8	1.326E 06	52.956	-53.04	1010.73	13.75000	0.28826	4.26	3.228E 08
9	1.801E 06	27.135	-60.06	1012.51	15.46667	0.26635	4.38	4.976E 08
10	1.714E 06	-1.315	-67.08	1013.98	17.18330	0.27240	4.37	4.866E 08
11	1.014E 06	-24.506	-74.08	1015.04	18.89999	0.29893	4.86	3.646E 08
12	9.614E 05	-50.828	-74.27	1015.08	20.64999	0.30762	4.43	2.684E 08
13	8.103E 05	-77.150	-74.46	1015.12	22.39999	0.32577	4.52	1.910E 08

Table 172

 ** ORBITAL FLUX STUDY WITH COMPOSITE PARTICLE ENVIRONMENTS: VETTES AP5, AP6, AP7; AE4, AE5, FOR SOLAR MAXIMUM **** UNIFLX OF 1973 **
 ** ELECTRON FLUXES EXPONENTIALLY DECAYED TO 1970. 0 WITH LIFETIMES: E.G. STASSINOPOULOS & P. VERZARIU ** CUTOFF TIMES: **
 ** MAGNETIC COORDINATES B AND L COMPUTED BY INVARA OF 1972 WITH ALLMAG. MODEL 4: CAINESWEELEY 120-TERM PDGD 8/69 * TIME= 1974.0 **
 ** VEHICLE : SATS INCLINATION= 90DEG ** PERIGEE= 1000KM ** APOGEE= 1000KM ** B/L ORBIT TAPE: TD7372 ** PERIOD= 1.752 **

***** HIGH ENERGY PROTONS *****
 ** TABLE OF PEAK AND TOTAL FLUXES PER PERIOD : ENERGY >5.00 MEV **

PERIOD NUMBER	PEAK FLUX ENCOUNTERED #/CM**2/SEC	POSITION AT WHICH ENCOUNTERED			ORBIT TIME (HOURS)	FIELD(B) (GAUSS)	LINE(L) (E.R.)	TOTAL FLUX PER ORBIT #/CM**2/ORBIT
		LONGITUDE (DEG)	LATITUDE (DEG)	ALTITUDE (KM)				
1	3.146E 02	64.228	-32.64	999.81	1.03333	0.27709	2.10	1.115E 05
2	7.488E 03	38.157	-29.01	998.68	2.76667	0.22195	1.85	2.290E 06
3	1.747E 04	11.584	-32.26	999.66	4.53333	0.20332	1.89	6.369E 06
4	2.414E 04	-15.239	-38.95	1001.88	6.31667	0.19215	1.83	1.431E 07
5	3.005E 04	-40.307	-21.56	996.62	7.98333	0.16424	1.29	1.866E 07
6	1.651E 04	-67.130	-28.26	998.39	9.76667	0.17464	1.29	8.696E 06
7	2.104E 03	-92.700	-17.74	995.73	11.46667	0.19187	1.20	1.003E 06
8	3.043E 03	51.452	-32.48	1005.04	13.85000	0.24584	2.05	9.280E 05
9	1.227E 04	24.879	-29.24	1004.24	15.61667	0.21018	1.84	4.263E 06
10	2.299E 04	-1.192	-32.86	1005.20	17.34999	0.19507	1.80	1.017E 07
11	2.731E 04	-28.015	-26.18	1003.57	19.13332	0.17153	1.41	1.838E 07
12	3.015E 04	-54.337	-26.37	1003.64	20.88332	0.16579	1.30	1.545E 07
13	7.240E 03	-80.408	-30.00	1004.54	22.61664	0.19051	1.30	3.904E 06

 ** ORBITAL FLUX STUDY WITH COMPOSITE PARTICLE ENVIRONMENTS: VETTES AP5, AP6, AP7; AE4, AE5, FOR SOLAR MAXIMUM *** UNIFLX OF 1973 **
 ** ELECTRON FLUXES EXPONENTIALLY DECAYED TO 1970. 0 WITH LIFETIMES: E.G. STASSINPOULOS6P, VERZARU. ** CUTOFF TIMES: **
 ** MAGNETIC COORDINATES B AND L COMPUTED BY INVARA OF 1972 WITH ALLMAG, MODEL 4: CAIN&SWEENEY 120-TERM POGO 8/69 * TIME= 1974.0 **
 ** VEHICLE : SATS ** INCLINATION= 90DEG ** PERIGEE= 1000KM ** APOGEE= 1000KM ** B/L ORBIT TAPE: TD7372 ** PERIOD= 1.762 **

 ELECTRONS *****
 ** TABLE OF PEAK AND TOTAL FLUXES PER PERIOD : ENERGY >.500 MEV **

PERIOD NUMBER	PEAK FLUX ENCOUNTERED #/CM**2/SEC	POSITION AT WHICH ENCOUNTERED			ORBIT TIME (HOURS)	FIELD(B) (GAUSS)	LINE(L) (E.O.R.)	TOTAL FLUX PER ORBIT #/CM**2/ORBIT
		LONGITUDE (DEG)	LATITUDE (DEG)	ALTITUDE (KM)				
1	3.396E 05	62.975	-49.80	1005.78	1.11666	0.30504	4.04	1.654E 08
2	4.134E 05	36.152	-56.46	1008.10	2.90000	0.26717	4.18	2.374E 08
3	8.040E 05	12.838	-15.05	995.31	4.45000	0.19993	1.40	3.687E 08
4	2.446E 06	-13.735	-18.30	995.91	6.21667	0.17917	1.38	8.042E 08
5	4.596E 06	-40.809	-28.45	998.46	8.01667	0.16769	1.37	1.436E 09
6	1.763E 06	-67.632	-35.13	1000.55	9.80000	0.18502	1.38	6.263E 08
7	2.714E 05	-96.711	-72.59	1012.88	11.73333	0.33854	4.45	1.722E 08
8	3.640E 05	-52.956	-63.04	1010.73	13.75000	0.28826	4.26	1.831E 08
9	4.654E 05	24.127	-18.92	1002.02	15.66667	0.20756	1.50	2.978E 08
10	1.472E 06	-24.445	-15.67	1001.50	17.43330	0.18760	1.38	5.434E 08
11	4.063E 06	-28.266	-22.74	1002.81	19.14999	0.16956	1.36	1.250E 09
12	3.789E 06	-53.836	-33.24	1005.35	20.84999	0.17275	1.38	1.233E 09
13	5.945E 05	-79.907	-36.86	1006.36	22.58331	0.20305	1.41	2.978E 08

TABLE 173

SATS
CIRCULAR
INCLINATION: 0 DEG
PERIGEE: 200 KM
APOGEE: 200 KM
DECAY DATE: 1970. 0.

**** EXPOSURE ANALYSIS ****

	PROTONS-LOW (E>.100MFV)	PROTONS-HIGH (E>5.00MFV)	ELECTRONS (E>.500MEV)
PERCENT OF TOTAL LIFE- TIME SPENT IN FLUX-FREE REGIONS* OF SPACE :	100.00 %	100.00 %	100.00 %
PERCENT OF TOTAL LIFE- TIME SPENT IN HIGH- INTENSITY REGIONS* OF VAN ALLEN BELTS :	0.0 %	0.0 %	0.0 %
PERCENT OF TOTAL DAILY FLUX ACCUMULATED IN HIGH-INTENSITY REGIONS:	0.0 %	0.0 %	0.0 %

* <1 PARTICLE/CM**2/SEC

+ >1.E5 LL/CM**2/SEC OR 1.E3 PP/CM**2/SEC

TABLE 174

SATS
CIRCULAR
INCLINATION: 0 DEG
PERIGEE: 200 KM
APOGEE: 200 KM
DECAY DATE: 1970. 0.

* PERCENT OF TOTAL LIFETIME SPENT INSIDE AND *
* OUTSIDE THE TRAPPED-PARTICLE RADIATION BELT *

INNER ZONE -TI-*	100.00 %
(1.0 < L < 2.8)	
OUTER ZONE -TO-	0.0 %
(2.8 < L < 11.0)	
EXTERNAL -TE-	0.00 %
(L > 11.0)	
TOTAL	100.00 %

*TIME IN INNER ZONE MAY BE SUBDIVIDED AS FOLLOWS:

OUTSIDE TRAPPING REGION :	87.92 %
(1.0 < L < 1.1)	
INSIDE TRAPPING REGION :	12.08 %
(1.1 < L < 2.8)	

TABLE

TABLE 175

SATS				SATS			
CIRCULAR				CIRCULAR			
INCLINATION: 30 DEG				INCLINATION: 30 DEG			
PERIGEE: 200 KM				PERIGEE: 200 KM			
APOGEE: 200 KM				APOGEE: 200 KM			
DECAY DATE: 1970. 0.				DECAY DATE: 1970. 0.			
*** EXPOSURE ANALYSIS ***				* PERCENT OF TOTAL LIFETIME SPENT INSIDE AND *			
				* OUTSIDE THE TRAPPED-PARTICLE RADIATION BELT *			
PROTONS-LOW PROTONS-HIGH ELECTRONS							
(E>0.100MEV) (E>5.00MEV) (E>500MEV)				INNER ZONE -TI- : 100.00 %			
PERCENT OF TOTAL LIFE-				(1.0 < L < 2.8)			
TIME SPENT IN FLUX-FREE				OUTER ZONE -TO- : 0.0 %			
REGIONS* OF SPACE : 92.71 % 53.29 % 97.36 %				(2.8 < L < 11.0)			
PERCENT OF TOTAL LIFE-				EXTERNAL -TE- : 0.00 %			
TIME SPENT IN HIGH				(L > 11.0)			
INTENSITY-REGIONS+ OF				TOTAL : 100.00 %			
VAN ALLEN BELTS : 0.28 % 0.0 % 0.0 %							
PERCENT OF TOTAL DAILY							
FLUX ACCUMULATED IN				*TIME IN INNER ZONE MAY BE SUBDIVIDED AS FOLLOWS:			
HIGH-INTENSITY REGIONS: 14.15 % 0.0 % 0.0 %				OUTSIDE TRAPPING REGION : 35.42 %			
				(1.0 < L < 1.1)			
				INSIDE TRAPPING REGION : 64.58 %			
				(1.1 < L < 2.8)			

* <1 PARTICLE/CM**2/SEC							
+ >1.E5 EL/CM**2/SEC OR 1.E3 PR/CM**2/SEC							

TABLE _

SATS
CIRCULAR
INCLINATION: 60 DEG
PERIGEE: 200 KM
APOGEE: 200 KM
DECAY DATE: 1970. 0.

**** EXPOSURE ANALYSIS ****

PROTONS-LOW PROTONS-HIGH ELECTRONS
(E>0.10MEV) (E>5.00MEV) (E>0.500MEV)

PERCENT OF TOTAL LIFE-

TIME SPENT IN FLUX-FREE

REGIONS* OF SPACE : 88.89 % 93.47 % 76.04 %

PERCENT OF TOTAL LIFE-

TIME-SPENT IN HIGH-

INTENSITY REGIONS+ OF

VAN ALLEN BELTS : 7.98 % 0.0 % 1.94 %

PERCENT OF TOTAL DAILY

FLUX ACCUMULATED IN

HIGH-INTENSITY REGIONS: 59.57 % 0.0 % 41.72 %

* <1 PARTICLE/CM**2/SEC

+ >1.75 EL/CM**2/SEC OR 1.03 PR/CM**2/SEC

TABLE 176

SATS
CIRCULAR
INCLINATION: 60 DEG
PERIGEE: 200 KM
APOGEE: 200 KM
DECAY DATE: 1970. 0.

* PERCENT OF TOTAL LIFETIME SPENT INSIDE AND *
* OUTSIDE THE TRAPPED-PARTICLE RADIATION BELT *

INNER ZONE -TI-* : 76.25 %

(1.0 < L < 2.8)

OUTER ZONE -TO- : 23.75 %

(2.8 < L < 11.0)

EXTERNAL -TE- : 0.00 %

(L > 11.0)

TOTAL : 100.00 %

*TIME IN INNER ZONE MAY BE SUBDIVIDED AS FOLLOWS:

OUTSIDE TRAPPING REGION : 18.47 %

(1.0 < L < 1.1)

INSIDE TRAPPING REGION : 57.78 %

(1.1 < L < 2.8)

TABLE

TABLE 177

SATS

SATS

CIRCULAR

CIRCULAR

INCLINATION: 90 DEG

INCLINATION: 90 DEG

PERIGEE: 200 KM

PERIGEE: 200 KM

APOGEE: 200 KM

APOGEE: 200 KM

DECAY DATE: 1970. 0.

DECAY DATE: 1970. 0.

*** EXPOSURE ANALYSIS ***

* PERCENT OF TOTAL LIFETIME SPENT INSIDE AND *

* OUTSIDE THE TRAPPED-PARTICLE RADIATION BELT *

PROTONS-LOW PROTONS-HIGH ELECTRONS

(E>0.100MEV) (E>5.000MEV) (E>0.500MEV)

INNER ZONE -T1- : 56.47 %

(1.0 < L < 2.8)

PERCENT OF TOTAL LIFE-

TIME SPENT IN FLUX-FREE

OUTER ZONE -T0- : 40.49 %

REGIONS* OF SPACE :

90.90 %

55.35 %

76.94 %

(2.8 < L < 11.0)

PERCENT OF TOTAL LIFE-

EXTERNAL -T2- : 1.00 %

TIME SPENT IN HIGH

(L > 11.0)

INTENSITY REGIONS* OF

TOTAL : 100.00 %

VAN ALLEN BELTS :

5.49 %

0.0 %

2.01 %

PERCENT OF TOTAL DAILY

FLUX ACCUMULATED IN

*TIME IN INNER ZONE MAY BE SUBDIVIDED AS FOLLOWS:

HIGH-INTENSITY REGIONS:

99.66 %

0.0 %

41.33 %

OUTSIDE TRAPPING REGION : 15.97 %

(1.0 < L < 1.1)

INSIDE TRAPPING REGION : 42.50 %

(1.1 < L < 2.8)

* <1 PARTICLE/CM**2/SEC

+ >1.E5 FL/CM**2/SEC OR 1.E3 PF/CM**2/SEC

TABLE

TABLE 172

SATS				SATS
CIRCULAR				CIRCULAR
INCLINATION: 0 DEG				INCLINATION: 0 DEG
PERIGEE: 400 KM				PERIGEE: 400 KM
APOGEE: 400 KM				APOGEE: 400 KM
DECAY DATE: 1970. 0.				DECAY DATE: 1970. 0.
****EXPOSURE ANALYSIS ****				* PERCENT OF TOTAL LIFETIME SPENT INSIDE AND *
				* OUTSIDE THE TRAPPED-PARTICLE RADIATION BELT *
PROTONS-LOW PROTONS-HIGH ELECTRONS				
{E>.100MEV} {E>.5.90MEV} {E>.500MEV}				INNER ZONE -TI- : 100.00 %
				(1.0 < L < 2.8)
PERCENT OF TOTAL LIFE-				
TIME SPENT IN FLUX-FREE				OUTER ZONE -TO- : 0.0 %
REGIONS* OF SPACE :	91.81 %	95.42 %	96.25 %	(2.8 < L < 11.0)
PERCENT OF TOTAL LIFE-				
TIME SPENT IN HIGH				EXTERNAL -TE- : 0.00 %
INTENSITY REGIONS* OF				(L > 11.0)
VAN ALLEN BELTS :	0.0 %	0.0 %	0.0 %	TOTAL : 100.00 %
PERCENT OF TOTAL DAILY				
FLUX ACCUMULATED IN				*TIME IN INNER ZONE MAY BE SUBDIVIDED AS FOLLOWS:
HIGH-INTENSITY REGIONS:	0.0 %	0.0 %	0.0 %	
				OUTSIDE TRAPPING REGION : 71.11 %
				(1.0 < L < 1.1)
				INSIDE TRAPPING REGION : 28.89 %
				(1.1 < L < 2.8)

* <1 PARTICLE/CM**2/SEC				
* >1.E5 EL/CM**2/SEC OR 1.E3 PR/CM**2/SEC				

SATS

CIRCULAR

INCLINATION: 30 DEG

PERIGEE: 400 KM

APOGEE: 400 KM

DECAY DATE: 1970. 0.

SATS

CIRCULAR

INCLINATION: 30 DEG

PERIGEE: 400 KM

APOGEE: 400 KM

DECAY DATE: 1970. 0.

*** EXPOSURE ANALYSIS ***

* PERCENT OF TOTAL LIFETIME SPENT INSIDE AND *

* OUTSIDE THE TRAPPED-PARTICLE RADIATION BELT *

PROTONS-LOW PROTONS-HIGH ELECTRONS

(E>100MEV) (E>5.00MEV) (E>500MEV)

PERCENT OF TOTAL LIFE-

TIME SPENT IN FLUX-FREE

REGIONS* OF SPACE :	85.69 %	87.08 %	89.58 %
PERCENT OF TOTAL LIFE-			
TIME SPENT IN FLUX-FREE			
REGIONS* OF SPACE :	85.69 %	87.08 %	89.58 %
PERCENT OF TOTAL LIFE-			
TIME SPENT IN HIGH-			
INTENSITY REGIONS* OF			
VAN ALLEN BELTS :	6.81 %	1.25 %	0.36 %
PERCENT OF TOTAL DAILY			
FLUX ACCUMULATED IN			
HIGH-INTENSITY REGIONS:	94.89 %	35.81 %	33.11 %

PERCENT OF TOTAL LIFE-

TIME SPENT IN HIGH-

INTENSITY REGIONS* OF

VAN ALLEN BELTS : 6.81 % 1.25 % 0.36 %

PERCENT OF TOTAL DAILY

FLUX ACCUMULATED IN

HIGH-INTENSITY REGIONS: 94.89 % 35.81 % 33.11 %

INNER ZONE -TI- : 100.00 %

(1.0 < L < 2.8)

OUTER ZONE -TO- : 0.0 %

(2.8 < L < 11.0)

EXTERNAL -TE- : 0.00 %

(L > 11.0)

TOTAL : 100.00 %

*TIME IN INNER ZONE MAY BE SUBDIVIDED AS FOLLOWS:

OUTSIDE TRAPPING REGION : 26.60 %

(1.0 < L < 1.1)

INSIDE TRAPPING REGION : 73.40 %

(1.1 < L < 2.8)

* <1 PARTICLE/CM**2/SEC

+ >1.E5 EL/CM**2/SEC OR 1.E3 PR/CM**2/SEC

TABLE 1

SATS
CIRCULAR
INCLINATION: 60 DEG
PERIGEE: 400 KM
APOGEE: 400 KM
DECAY DATE: 1970. 0.

**** EXPOSURE ANALYSIS ****

PROTONS-LOW PROTONS-HIGH ELECTRONS
(E>0.100MEV) (E>5.00MEV) (E>500MEV)

PERCENT OF TOTAL LIFE-
TIME SPENT IN FLUX-FREE

REGIONS* OF SPACE : 82.71 % 88.40 % 70.07 %

PERCENT OF TOTAL LIFE-
TIME SPENT IN HIGH-

INTENSITY REGIONS+ OF

VAN ALLEN BELTS : 11.94 % 3.47 % 4.24 %

PERCENT OF TOTAL DAILY

FLUX ACCUMULATED IN

HIGH-INTENSITY REGIONS: 99.84 % 80.97 % 50.35 %

* <1 PARTICLE/CM**2/SEC

+ >1.E5 FL/CM**2/SEC OR 1.E3 PR/CM**2/SEC

TABLE 120

SATS
CIRCULAR
INCLINATION: 60 DEG
PERIGEE: 400 KM
APOGEE: 400 KM
DECAY DATE: 1970. 0.

* PERCENT OF TOTAL LIFETIME SPENT INSIDE AND *
* OUTSIDE THE TRAPPED-PARTICLE RADIATION BELT *

INNER ZONE -TI-* : 76.18 %

(1.0 < L < 2.8)

OUTER ZONE -TO- : 23.82 %

(2.8 < L < 11.0)

EXTERNAL -TE- : 0.00 %

(L > 11.0)

TOTAL : 100.00 %

*TIME IN INNER ZONE MAY BE SUBDIVIDED AS FOLLOWS:

OUTSIDE TRAPPING REGION : 14.24 %

(1.0 < L < 1.1)

INSIDE TRAPPING REGION : 61.94 %

(1.1 < L < 2.8)

TABLE _

SATS
CIRCULAR
INCLINATION: 90 DEG
PERIGEE: 400 KM
APOGEE: 400 KM
DECAY DATE: 1970. 0.

**** EXPOSURE ANALYSIS ****

PROTONS-LOW PROTONS-HIGH ELECTRONS
($E > 0.100 \text{ MEV}$) ($E > 5.00 \text{ MEV}$) ($E > 500 \text{ MEV}$)

PERCENT OF TOTAL LIFE-

TIME SPENT IN FLUX-PRIME

REGIONS* OF SPACE : 65.69 % 91.46 % 72.29 %

PERCENT OF TOTAL LIFE-

TIME SPENT IN HIGH-

INTENSITY REGIONS+ OF

VAN ALLEN BELTS : 9.93 % 2.56 % 3.89 %

PERCENT OF TOTAL DAILY

FLUX ACCUMULATED IN

HIGH-INTENSITY REGIONS: 99.89 % 78.97 % 49.42 %

* <1 PARTICLE/CM**2/SEC

+ >1.05 FL/CM**2/SEC OR 1.03 PR/CM**2/SEC

TABLE 121

SATS
CIRCULAR
INCLINATION: 90 DEG
PERIGEE: 400 KM
APOGEE: 400 KM
DECAY DATE: 1970. 0.

* PERCENT OF TOTAL LIFETIME SPENT INSIDE AND *
* OUTSIDE THE TRAPPED-PARTICLE RADIATION BELT *

INNER ZONE -TI-* : 58.40 %

($1.0 < L < 2.8$)

OUTER ZONE -TO- : 40.42 %

($2.8 < L < 11.0$)

EXTERNAL -TE- : 1.18 %

($L > 11.0$)

TOTAL : 100.00 %

*TIME IN INNER ZONE MAY BE SUBDIVIDED AS FOLLOWS:

OUTSIDE TRAPPING REGION : 12.08 %

($1.0 < L < 1.1$)

INSIDE TRAPPING REGION : 46.32 %

($1.1 < L < 2.8$)

TABLE _

TABLE 1/2

SATS
CIRCULAR
INCLINATION: 0 DEG
PERIGEE: 600 KM
APOGEE: 600 KM
DECAY DATE: 1970. 0.

SATS
CIRCULAR
INCLINATION: 0 DEG
PERIGEE: 600 KM
APOGEE: 600 KM
DECAY DATE: 1970. 0.

**** EXPOSURE ANALYSIS ****

PROTONS-LOW PROTONS-HIGH ELECTRONS
(E>.100MEV) (E>5.00MEV) (E>.500MEV)

PERCENT OF TOTAL LIFE-

TIME SPENT IN FLUX-FREE

REGIONS* OF SPACE : 75.90 % 80.69 % 84.96 %

PERCENT OF TOTAL LIFE-

TIME SPENT IN HIGH-

INTENSITY REGIONS* OF

VAN ALLEN BELTS : 0.0 % 0.0 % 0.0 %

PERCENT OF TOTAL DAILY

FLUX ACCUMULATED IN

HIGH-INTENSITY REGIONS: 0.0 % 0.0 % 0.0 %

* <1 PARTICLE/CM**2/SEC

+ >1.65 PL/CM**2/SEC OR 1.63 PF/CM**2/SEC

* PERCENT OF TOTAL LIFETIME SPENT INSIDE AND *

* OUTSIDE THE TRAPPED-PARTICLE RADIATION BELT *

INNER ZONE -TI- : 100.00 %

(1.0 < L < 2.8)

OUTER ZONE -TO- : 0.0 %

(2.8 < L < 11.0)

EXTERNAL -TE- : 0.00 %

(L > 11.0)

TOTAL : 100.00 %

*TIME IN INNER ZONE MAY BE SUBDIVIDED AS FOLLOWS:

OUTSIDE TRAPPING REGION : 58.89 %

(1.0 < L < 1.1)

INSIDE TRAPPING REGION : 41.11 %

(1.1 < L < 2.8)

TABLE 182

SATS

CIRCULAR

INCLINATION: 30 DEG

PERIGEE: 600 KM

APOGEE: 600 KM

DECAY DATE: 1970. 0.

**** EXPOSURE ANALYSIS ****

PROTONS-LOW PROTONS-HIGH ELECTRONS

(E>.100MEV) (E>5.00MEV) (E>.500MEV)

PERCENT OF TOTAL LIFE-

TIME SPENT IN FLUX-FREE

REGIONS* OF SPACE : 78.82 % 80.63 % 84.03 %

PERCENT OF TOTAL LIFE-

TIME SPENT IN HIGH-

INTENSITY REGIONS* OF

VAN ALLEN BELTS : 10.42 % 6.88 % 2.92 %

PERCENT OF TOTAL DAILY

FLUX ACCUMULATED IN

HIGH-INTENSITY REGIONS: 97.03 % 89.71 % 83.27 %

* <1 PARTICLE/CM**2/SEC

+ >1.E5 EL/CM**2/SEC OR 1.E3 PR/CM**2/SEC

TABLE 183

SATS

CIRCULAR

INCLINATION: 30 DEG

PERIGEE: 600 KM

APOGEE: 600 KM

DECAY DATE: 1970. 0.

* PERCENT OF TOTAL LIFETIME SPENT INSIDE AND *

* OUTSIDE THE TRAPPED-PARTICLE RADIATION BELT *

INNER ZONE -TI-* : 100.00 %

(1.0 < L < 2.8)

OUTER ZONE -TO- : 0.0 %

(2.8 < L < 11.0)

EXTERNAL -TE- : 0.00 %

(L > 11.0)

TOTAL : 100.00 %

*TIME IN INNER ZONE MAY BE SUBDIVIDED AS FOLLOWS:

OUTSIDE TRAPPING REGION : 17.26 %

(1.0 < L < 1.1)

INSIDE TRAPPING REGION : 82.71 %

(1.1 < L < 2.8)

TABLE 184

SATS
CIRCULAR
INCLINATION: 60 DEG
PERIGEE: 600 KM
APOGEE: 600 KM
DECAY DATE: 1970. 0.

*** EXPOSURE ANALYSIS ***

	PROTONS-LOW (E>.100MEV)	PROTONS-HIGH (E>5.00MEV)	ELECTRONS (E>.500MEV)
PERCENT OF TOTAL LIFE- TIME SPENT IN FLUX-FREE REGIONS* OF SPACE :	75.07 %	83.61 %	63.61 %
PERCENT OF TOTAL LIFE- TIME SPENT IN HIGH- INTENSITY REGIONS* OF VAN ALLEN BELTS :	17.15 %	6.25 %	8.40 %
PERCENT OF TOTAL DAILY FLUX ACCUMULATED IN HIGH-INTENSITY REGIONS:	99.50 %	50.25 %	58.95 %

* <1 PARTICLE/CM**2/SEC

+ >1.25 FL/CM**2/SEC OR 1.25 PR/CM**2/SEC

TABLE 184

SATS
CIRCULAR
INCLINATION: 60 DEG
PERIGEE: 600 KM
APOGEE: 600 KM
DECAY DATE: 1970. 0.

* PERCENT OF TOTAL LIFETIME SPENT INSIDE AND *
* OUTSIDE THE TRAPPED-PARTICLE RADIATION BELT *

INNER ZONE -TI-*	73.54 %
(1.0 < L < 2.8)	
OUTER ZONE -TO-	26.46 %
(2.8 < L < 11.0)	
EXTERNAL -TE-	0.00 %
(L > 11.0)	
TOTAL	100.00 %

*TIME IN INNER ZONE MAY BE SUBDIVIDED AS FOLLOWS:

OUTSIDE TRAPPING REGION :	5.37 %
(1.0 < L < 1.1)	
INSIDE TRAPPING REGION :	64.17 %
(1.1 < L < 2.8)	

SATS

SATS

CIRCULAR

CIRCULAR

INCLINATION: 90 DEG

INCLINATION: 90 DEG

PERIGEE: 600 KM

PERIGEE: 600 KM

APOGEE: 600 KM

APOGEE: 600 KM

DECAY DATE: 1970. 0.

DECAY DATE: 1970. 0.

**** EXPOSURE ANALYSIS ****

* PERCENT OF TOTAL LIFETIME SPENT INSIDE AND *
 * OUTSIDE THE TRAPPED-PARTICLE RADIATION BELT *

PROTONS-LOW PROTONS-HIGH ELECTRONS
 (E>100MEV) (E>5.00MEV) (E>500MEV)

PERCENT OF TOTAL LIFE-
 TIME SPENT IN FLUX-FREE

REGIONS* OF SPACE : 77.71 % 87.85 % 67.71 %

PERCENT OF TOTAL LIFE-
 TIME SPENT IN HIGH-

INTENSITY REGIONS* OF

VAN ALLEN BELTS : 15.35 % 5.00 % 8.06 %

PERCENT OF TOTAL DAILY
 FLUX ACCUMULATED IN

HIGH-INTENSITY REGIONS: 99.90 % 92.51 % 69.30 %

INNER ZONE -TI-* : 57.01 %
 (1.0 < L < 2.8)

OUTER ZONE -TO- : 41.60 %
 (2.8 < L < 11.0)

EXTERNAL -TE- : 1.39 %
 (L > 11.0)

TOTAL : 100.00 %

*TIME IN INNER ZONE MAY BE SUBDIVIDED AS FOLLOWS:

OUTSIDE TRAPPING REGION : 8.33 %
 (1.0 < L < 1.1)

INSIDE TRAPPING REGION : 48.68 %
 (1.1 < L < 2.8)

* <1 PARTICLE/CM**2/SEC

+ >1.E5 IL/CM**2/SEC OR 1.E3 PR/CM**2/SEC

TABLE _

TABLE 186

SATS
CIRCULAR
INCLINATION: 0 DEG
PERIGEE: 800 KM
APOGEE: 800 KM
DECAY DATE: 1970. 0.

**** EXPOSURE ANALYSIS ****

	FRACTIONS-LOW (E>100MEV)	FRACTIONS-HIGH (E>5.00MEV)	ELECTRONS (E>500MEV)
PERCENT OF TOTAL LIFE- TIME SPENT IN FLUX-FREE REGIONS* OF SPACE :	40.14 %	41.32 %	44.52 %
PERCENT OF TOTAL LIFE- TIME SPENT IN HIGH- INTENSITY REGIONS* OF VAN ALLEN BELTS :	15.22 %	2.64 %	0.0 %
PERCENT OF TOTAL DAILY FLUX ACCUMULATED IN HIGH-INTENSITY REGIONS:	52.13 %	25.28 %	0.0 %

* <1 PARTICLE/CM**2/SEC

+ >1.75 EL/CM**2/SEC OR 1.63 EE/CM**2/SEC

SATS
CIRCULAR
INCLINATION: 0 DEG
PERIGEE: 800 KM
APOGEE: 800 KM
DECAY DATE: 1970. 0.

* PERCENT OF TOTAL LIFETIME SPENT INSIDE AND *
* OUTSIDE THE TRAPPED-PARTICLE RADIATION BELT *

INNER ZONE -TI-*	100.00 %
(1.0 < L < 2.8)	
OUTER ZONE -TO-	0.0 %
(2.8 < L < 11.0)	
EXTERNAL -TE-	0.00 %
(L > 11.0)	
TOTAL	100.00 %

*TIME IN INNER ZONE MAY BE SUBDIVIDED AS FOLLOWS:

OUTSIDE TRAPPING REGION :	23.96 %
(1.0 < L < 1.1)	
INSIDE TRAPPING REGION :	76.04 %
(1.1 < L < 2.8)	

TABLE

TABLE 187

SATS				SATS
CIRCULAR				CIRCULAR
INCLINATION: 30 DEG				INCLINATION: 30 DEG
PERIGEE: 800 KM				PERIGEE: 800 KM
APOGEE: 800 KM				APOGEE: 800 KM
DECAY DATE: 1970. 0.				DECAY DATE: 1970. 0.
**** EXPOSURE ANALYSIS ****				
* PERCENT OF TOTAL LIFETIME SPENT INSIDE AND *				
* OUTSIDE THE TRAPPED-PARTICLE RADIATION BELT *				
FRETONS-LOW FRETONS-HIGH ELECTRONS				
(E>100MEV)	(E>5.00MEV)	(E>500MEV)	INNER ZONE -TI-	: 100.00 %
			(1.0 < L < 2.8)	
PERCENT OF TOTAL LIFE-				
TIME SPENT IN FLUX-FREE			OUTER ZONE -TO-	: 0.0 %
REGIONS* OF SPACE :	62.08 %	67.22 %	73.06 %	(2.8 < L < 11.0)
PERCENT OF TOTAL LIFE-				
TIME SPENT IN HIGH			EXTERNAL -TE-	: 0.00 %
			(L > 11.0)	
INTENSITY REGIONS* OF				
VAN ALLEN BELTS :	19.17 %	13.75 %	7.22 %	TOTAL : 100.00 %
PERCENT OF TOTAL DAILY				
FLUX ACCUMULATED IN			*TIME IN INNER ZONE MAY BE SUBDIVIDED AS FOLLOWS	
HIGH-INTENSITY REGIONS:	58.98 %	56.98 %	53.94 %	
			OUTSIDE TRAPPING REGION :	7.85 %
			(1.0 < L < 1.1)	
			INSIDE TRAPPING REGION :	92.15 %
*****			(1.1 < L < 2.8)	
* <1 PARTICLE/CM**2/SEC				
+ >1.E5 EL/CM**2/SEC OR 1.E3 PR/CM**2/SEC				

TABLE 1

SATS
CIRCULAR
INCLINATION: 60 DEG
PERIGEE: 800 KM
APOGEE: 800 KM
DECAY DATE: 1970. 0.

TABLE 188

SATS
CIRCULAR
INCLINATION: 60 DEG
PERIGEE: 800 KM
APOGEE: 800 KM
DECAY DATE: 1970. 0.

**** EXPOSURE ANALYSIS ****

* PERCENT OF TOTAL LIFETIME SPENT INSIDE AND *
* OUTSIDE THE TRAPPED-PARTICLE RADIATION BELT *

FRACTIONS-LOW FRACTIONS-HIGH ELECTRONS

(E>100MEV) (E>5.00MEV) (E>500MEV)

PERCENT OF TOTAL LIFE-

TIME SPENT IN FLUX-FREE

REGIONS OF SPACE : 59.31 % 75.14 % 55.14 %

PERCENT OF TOTAL LIFE-

TIME SPENT IN HIGH-

INTENSITY REGIONS OF

VAN ALLEN BELTS : 28.61 % 11.18 % 14.86 %

PERCENT OF TOTAL DAILY

FLUX ACCUMULATED IN

HIGH-INTENSITY REGIONS: 59.55 % 56.93 % 66.28 %

INNER ZONE -T1- : 72.50 %

(1.0 < L < 2.8)

OUTER ZONE -T2- : 27.50 %

(2.8 < L < 11.0)

EXTERNAL -TE- : 0.00 %

(L > 11.0)

TOTAL : 100.00 %

*TIME IN INNER ZONE MAY BE SUBDIVIDED AS FOLLOWS:

OUTSIDE TRAPPING REGION : 4.17 %

(1.0 < L < 1.1)

INSIDE TRAPPING REGION : 68.33 %

(1.1 < L < 2.8)

* <1 PARTICLE/CM**2/SEC

* >1.65 EL/CM**2/SEC OR 1.63 PR/CM**2/SEC

TABLE

TABLE 124

SATS

SATS

CIRCULAR

CIRCULAR

INCLINATION: 50 DEG

INCLINATION: 90 DEG

PERIGEE: 800 KM

PERIGEE: 800 KM

APOGEE: 800 KM

APOGEE: 800 KM

DECAY DATE: 1970. 8.

DECAY DATE: 1970. 0.

*** EXPOSURE ANALYSIS ***

* PERCENT OF TOTAL LIFETIME SPENT INSIDE AND *

* OUTSIDE THE TRAPPED PARTICLE RADIATION BELT *

FOTONS-LOW FOTONS-HIGH ELECTFENS

(E>100MEV) (E>500MEV) (E>500MEV)

INNER ZONE -T1- 56.39 %

(1.0 < L < 2.8)

PERCENT OF TOTAL LIFE-

TIME SPENT IN FLUX-FREE

OUTER ZONE -T0- 42.15 %

REGIONS OF SPACE :

64.93 %

80.90 %

61.67 %

(2.8 < L < 11.0)

PERCENT OF TOTAL LIFE-

EXTERNAL -TE- 1.46 %

TIME SPENT IN HIGH-

(L > 11.0)

INTENSITY REGIONS OF

VAN ALLEN BELTS :

29.17 %

8.61 %

13.06 %

TOTAL 100.00 %

PERCENT OF TOTAL DAILY

FLUX ACCUMULATED IN

*TIME IN INNER ZONE MAY BE SUBDIVIDED AS FOLLOWS:

HIGH-INTENSITY REGIONS:

99.64 %

97.35 %

86.83 %

OUTSIDE TRAPPING REGION : 3.68 %

(1.0 < L < 1.1)

INSIDE TRAPPING REGION : 82.71 %

(1.1 < L < 2.8)

* <1 PARTICLE/CM**2/SEC

+ >1.55 EL/CM**2/SEC OR 1.53 PR/CM**2/SEC

TABLE

TABLE 190

SATS				SATS			
CIRCULAR				CIRCULAR			
INCLINATION: 0 DEG				INCLINATION: 0 DEG			
PERIGEE: 1000 KM				PERIGEE: 1000 KM			
APOGEE: 1000 KM				APOGEE: 1000 KM			
DECAY DATE: 1970. 0.				DECAY DATE: 1970. 0.			
**** EXPOSURE ANALYSIS ****				* PERCENT OF TOTAL LIFETIME SPENT INSIDE AND *			
				* OUTSIDE THE TRAPPED-PARTICLE RADIATION BELT *			
PROTONS-LOW PROTONS-HIGH ELECTRONS							
(E>1.00MEV) (E>5.00MEV) (E>50.00MEV)				INNER ZONE -T1- : 100.00 %			
				(1.0 < L < 2.8)			
PERCENT OF TOTAL LIFE-							
TIME SPENT IN FLUX-FREE				OUTER ZONE -T0- : 0.0 %			
REGIONS* OF SPACE : 23.68 % 27.08 % 28.82 %				(2.8 < L < 11.0)			
PERCENT OF TOTAL LIFE-				EXTERNAL -TE- : 0.00 %			
TIME SPENT IN HIGH-				(L > 11.0)			
INTENSITY REGIONS* OF				TOTAL : 100.00 %			
VAN ALLEN BELTS : 35.97 % 24.44 % 1.74 %							
PERCENT OF TOTAL DAILY							
FLUX ACCUMULATED IN				*TIME IN INNER ZONE MAY BE SUBDIVIDED AS FOLLOWS:			
HIGH-INTENSITY REGIONS: 98.35 % 52.59 % 13.44 %							
				OUTSIDE TRAPPING REGION : 0.0 %			
				(1.0 < L < 1.1)			
				INSIDE TRAPPING REGION: 100.00 %			
				(1.1 < L < 2.8)			

* <1 PARTICLE/CM**2/SEC

* >1.E5 EL/CM**2/SEC OR 1.E3 PR/CM**2/SEC

SATS				SATS
CIRCULAR				CIRCULAR
INCLINATION: 30 DEG				INCLINATION: 30 DEG
PERIGEE: 1000 KM				PERIGEE: 1000 KM
APOGEE: 1000 KM				APOGEE: 1000 KM
DECAY DATE: 1970. 0.				DECAY DATE: 1970. 0.
**** EXPOSURE ANALYSIS ****				* PERCENT OF TOTAL LIFETIME SPENT INSIDE AND
				* OUTSIDE THE TRAPPED PARTICLE RADIATION BELT *
PROTONS-LOW PROTONS-HIGH ELECTRONS				
(F>.100MEV) (E>5.00MEV) (F>.500MEV)				INNER ZONE -TI- : 100.00 %
				(1.0 < L < 2.8)
PERCENT OF TOTAL LIFE-				
TIME SPENT IN FLUX-FREE				OUTER ZONE -TO- : 0.0 %
REGIONS* OF SPACE :	37.01 %	40.35 %	59.93 %	(2.8 < L < 11.0)
PERCENT OF TOTAL LIFE-				EXTERNAL -TE- : 0.00 %
TIME SPENT IN HIGH-				(L > 11.0)
INTENSITY REGIONS* OF				
VAN ALLEN BELTS :	29.93 %	21.32 %	13.13 %	TOTAL : 100.00 %
PERCENT OF TOTAL DAILY				
FLUX ACCUMULATED IN				*TIME IN INNER ZONE MAY BE SUBDIVIDED AS FOLLOWS:
HIGH-INTENSITY REGIONS:	98.65 %	98.17 %	97.53 %	
				OUTSIDE TRAPPING REGION : 2.92 %
				(1.0 < L < 1.1)
				INSIDE TRAPPING REGION : 97.08 %
				(1.1 < L < 2.8)

* <1 PARTICLE/CM**2/SEC				
* >1.E5 EL/CM**2/SEC OR 1.E3 PR/CM**2/SEC				

TABLE

TABLE 192

SATS

SATS

CIRCULAR

CIRCULAR

INCLINATION: 60 DEG

INCLINATION: 60 DEG

PERIGEE: 1000 KM

PERIGEE: 1000 KM

APOGEE: 1000 KM

APOGEE: 1000 KM

DECAY DATE: 1970. 0.

DECAY DATE: 1970. 0.

**** EXPOSURE ANALYSIS ****

* PERCENT OF TOTAL LIFETIME SPENT INSIDE AND *

* OUTSIDE THE TRAPPED-PARTICLE RADIATION BELT *

PROTONS-LOW PROTONS-HIGH ELECTRONS

(E>.100MEV) (E>.5.00MEV) (E>.500MEV)

INNER ZONE -TI- : 71.32 %

(1.0 < L < 2.8)

PERCENT OF TOTAL LIFE-

TIME SPENT IN FLUX-FREE

OUTER ZONE -TO- : 28.54 %

(2.8 < L < 11.0)

REGIONS* OF SPACE :

37.78 %

61.94 %

45.14 %

PERCENT OF TOTAL LIFE-

EXTERNAL -TE- : 0.14 %

TIME SPENT IN HIGH-

(L > 11.0)

INTENSITY REGIONS* OF

TOTAL : 100.00 %

VAN ALLEN BELTS :

42.08 %

16.04 %

20.56 %

PERCENT OF TOTAL DAILY

FLUX ACCUMULATED IN

*TIME IN INNER ZONE MAY BE SUBDIVIDED AS FOLLOWS:

HIGH-INTENSITY REGIONS:

99.92 %

97.80 %

93.02 %

OUTSIDE TRAPPING REGION : 1.87 %

(1.0 < L < 1.1)

INSIDE TRAPPING REGION : 69.44 %

(1.1 < L < 2.8)

* <1 PARTICLE/CM**2/SEC

* 1 ES E / 0 * 2 / 00 OR 1 53 40 4 70

TABLE				SATS			
SATS				SATS			
CIRCULAR				CIRCULAR			
INCLINATION: 90 DEG				INCLINATION: 90 DEG			
PERIGEE: 1000 KM				PERIGEE: 1000 KM			
APOGEE: 1000 KM				APOGEE: 1000 KM			
DECAY DATE: 1970. 0.				DECAY DATE: 1970. 0.			
*** EXPOSURE ANALYSIS ***				* PERCENT OF TOTAL LIFETIME SPENT INSIDE AND *			
				* OUTSIDE THE TRAPPED-PARTICLE RADIATION BELT *			
PROTONS-LOW PROTONS-HIGH ELECTRONS							
(E>100MEV) (E>500MEV) (E>1500MEV)				INNER ZONE -YI-* : 55.76 %			
				(1.0 < L < 2.8)			
PERCENT OF TOTAL LIFE-							
TIME SPENT IN FLUX-FREE				OUTER ZONE -TO- : 42.57 %			
REGIONS* OF SPACE : 49.31 % 70.42 % 54.51 %				(2.8 < L < 11.0)			
PERCENT OF TOTAL LIFE-				EXTERNAL -TE- : 1.67 %			
TIME SPENT IN HIGH-				(L > 11.0)			
INTENSITY REGIONS+ OF				TOTAL : 100.00 %			
VAN ALLEN BELTS : 34.24 % 12.15 % 18.26 %							
PERCENT OF TOTAL DAILY							
FLUX ACCUMULATED IN				*TIME IN INNER ZONE MAY BE SUBDIVIDED AS FOLLOWS:			
HIGH-INTENSITY REGIONS: 99.94 % 98.03 % 93.74 %							
				OUTSIDE TRAPPING REGION : 1.53 %			
				(1.0 < L < 1.1)			
				INSIDE TRAPPING REGION : 54.24 %			
				(1.1 < L < 2.8)			

* <1 PARTICLE/CM**2/SEC							
+ >1.E5 EL/CM**2/SEC OR 1.E3 PR/CM**2/SEC							

Table 194

Number of Flux Free Orbits per Day for Each of the Selected SATS Trajectories

<u>Inclination:</u>	<u>0°</u>	<u>30°</u>	<u>60°</u>	<u>90°</u>	
<u>Altitude</u>					
200	15	9	5	3	<div> } Protons (low) </div>
400	1	6	1	0	
600	0	4	0	0	
800	0	0	0	0	
1000	0	0	0	0	
200	15	10	6	7	<div> } Protons (high) </div>
400	15	6	3	4	
600	0	4	2	2	
800	0	0	0	0	
1000	0	0	0	0	
200	15	10	0	0	<div> } Electrons </div>
400	15	7	0	0	
600	0	4	0	0	
800	0	0	0	0	
1000	0	0	0	0	

TABLE ARRANGEMENT

Computer Produced Output Tables for Orbital Flux Integrations.

Standard Production Runs with UNIFLUX Program.

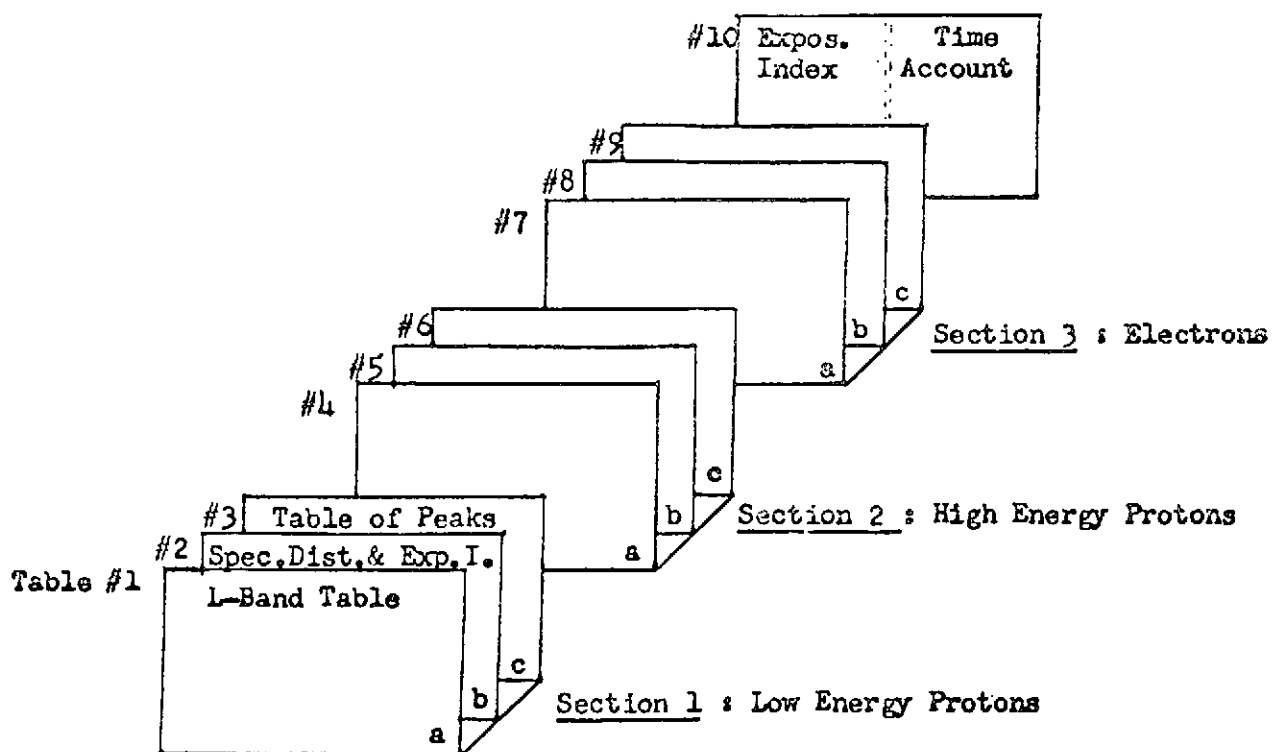


Figure 1 : Set of tables produced for every trajectory considered in a trapped particle radiation study.

PLOT ARRANGEMENT

Computer Produced Plots for Orbital Flux Integrations.

Standard Production Runs with UNIFLUX Program.

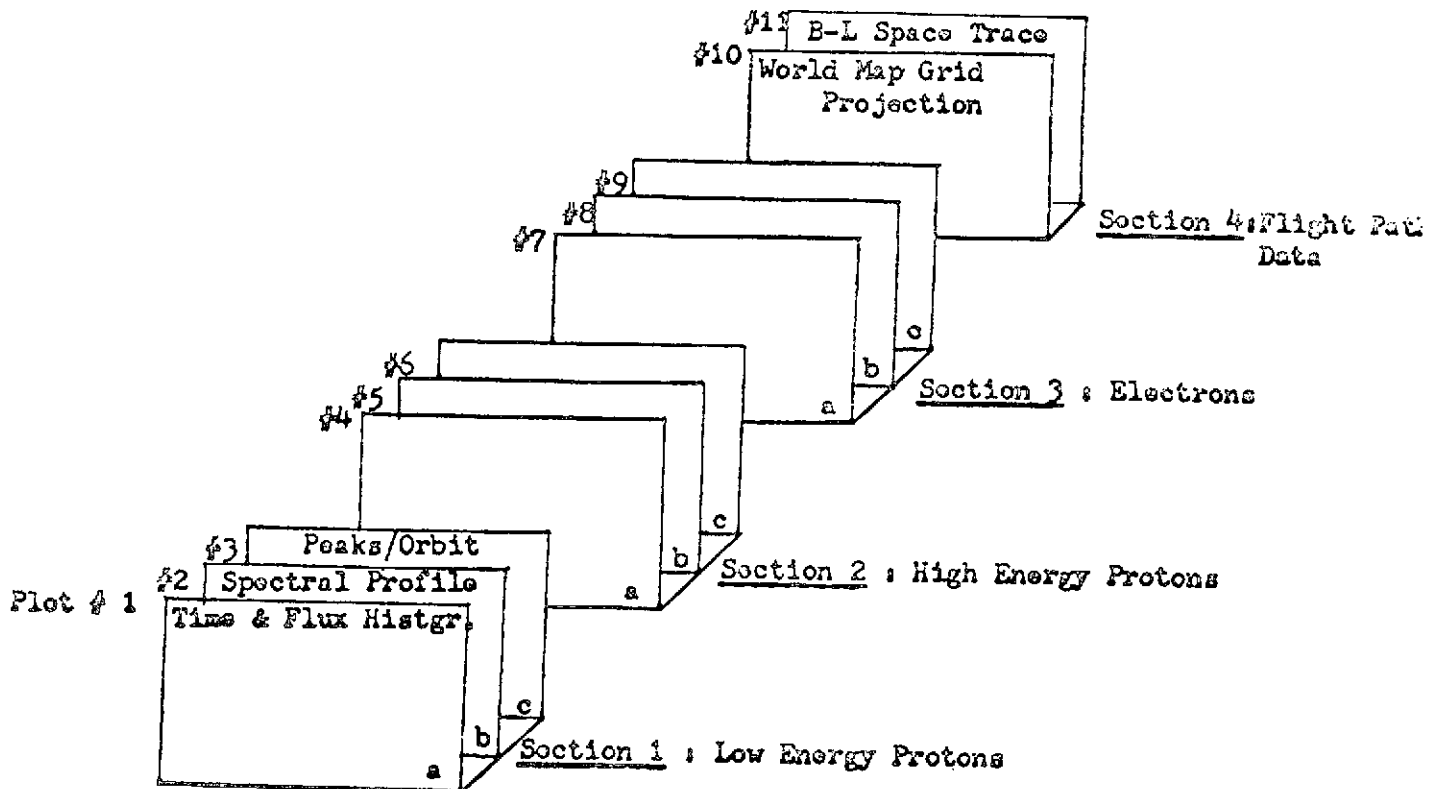


Figure 2 : Set of plots produced for every trajectory considered in a trapped particle radiation study.

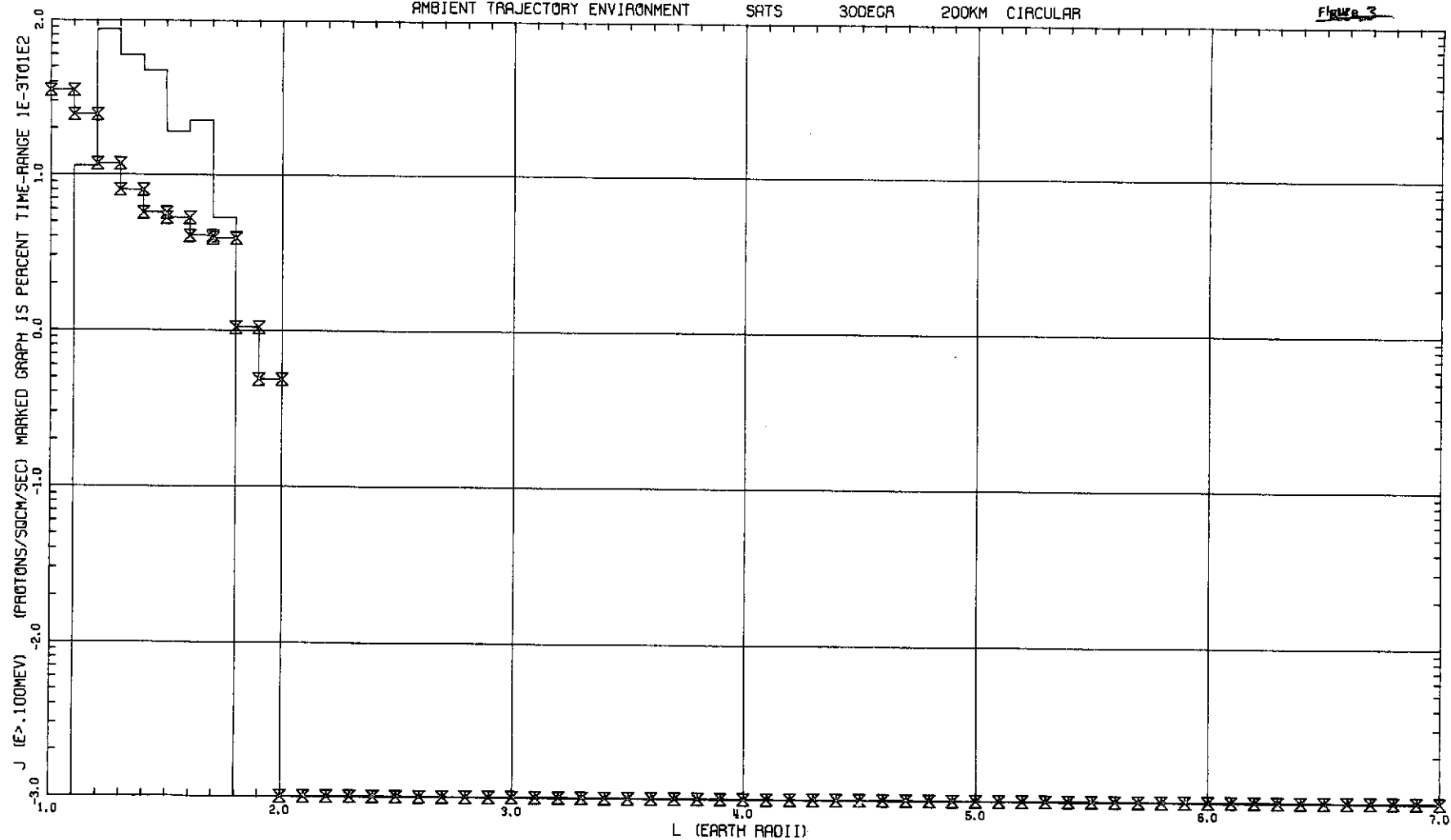
AMBIENT TRAJECTORY ENVIRONMENT

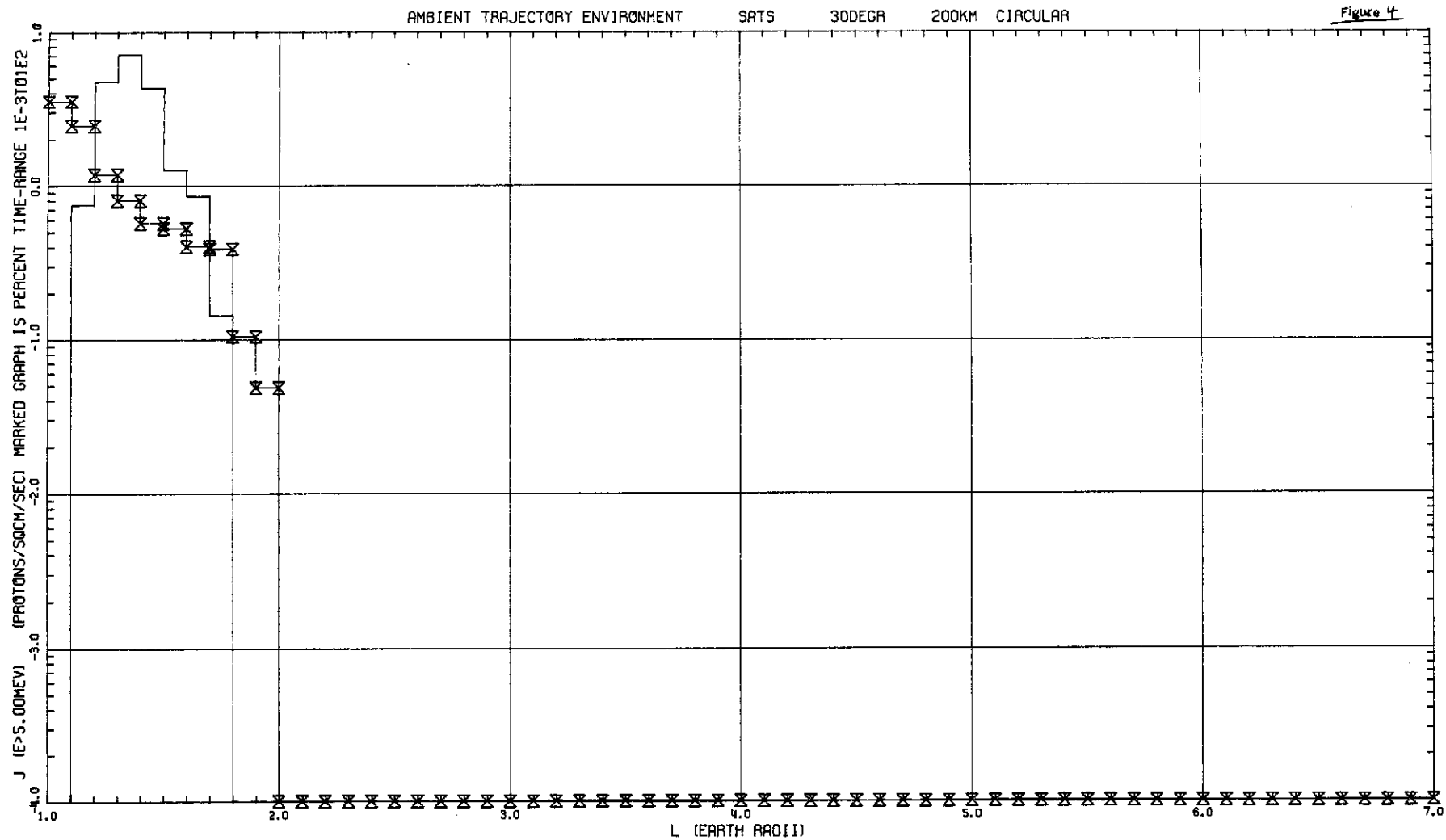
SATS

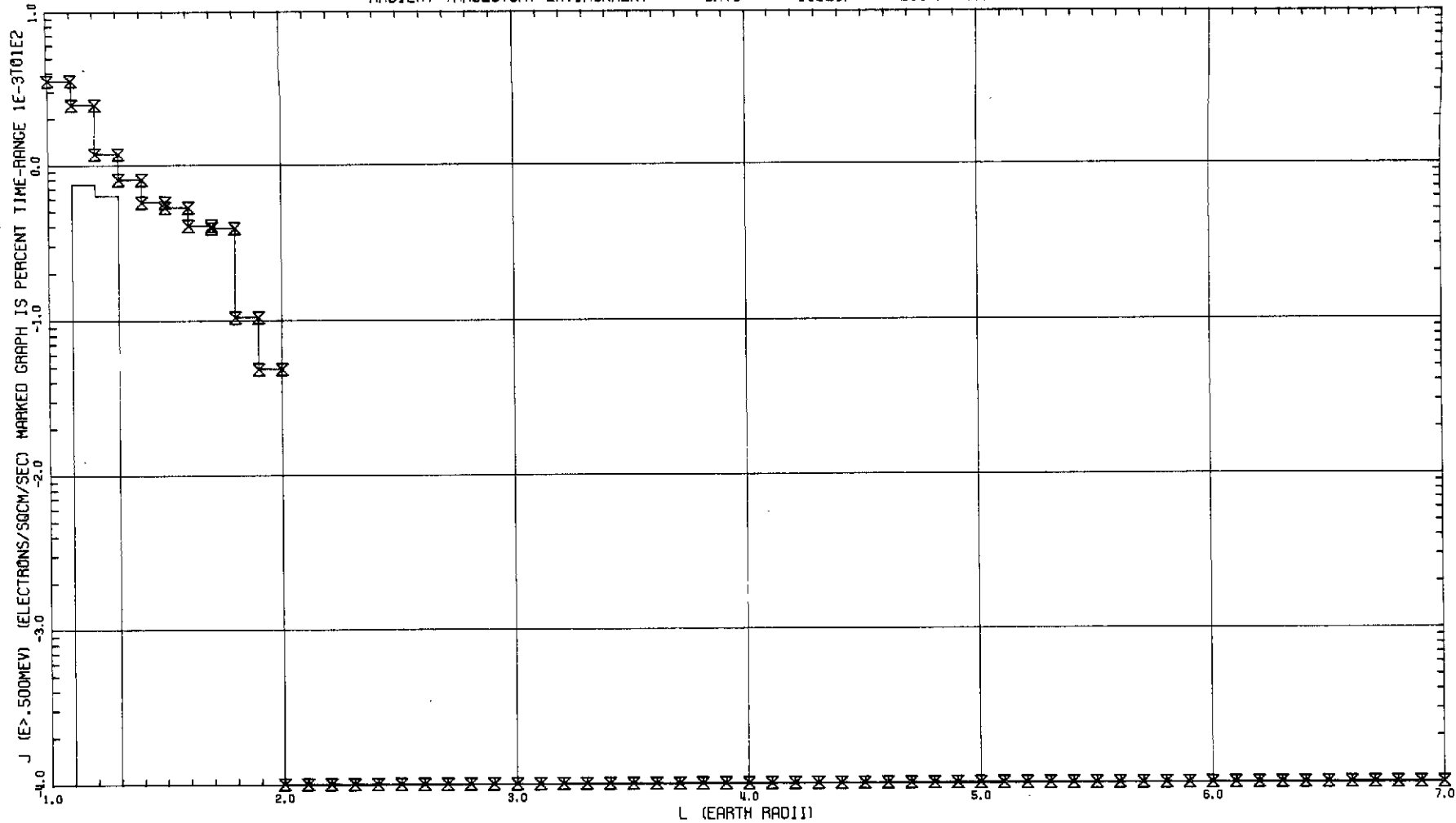
30DEGR

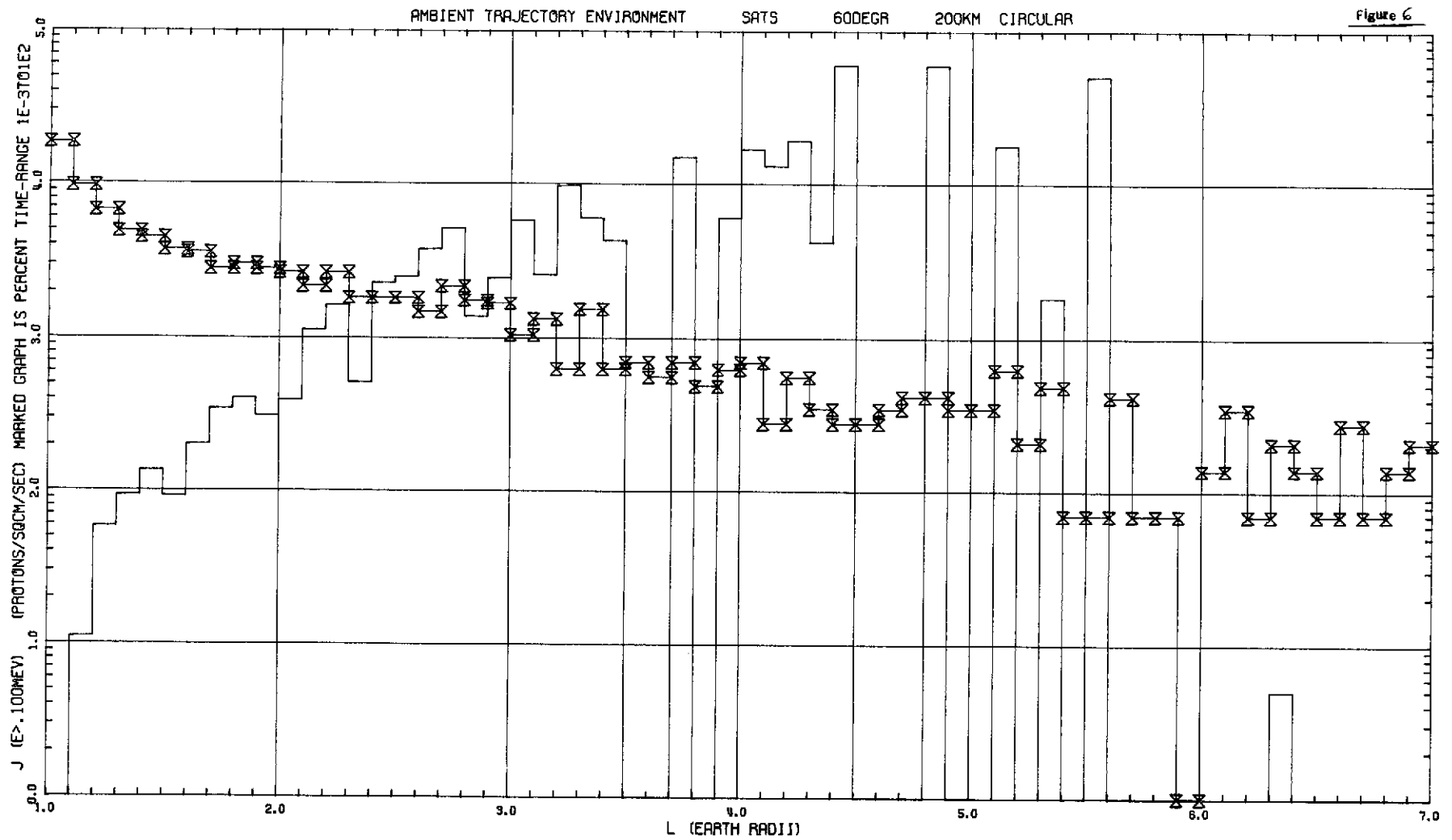
200KM CIRCULAR

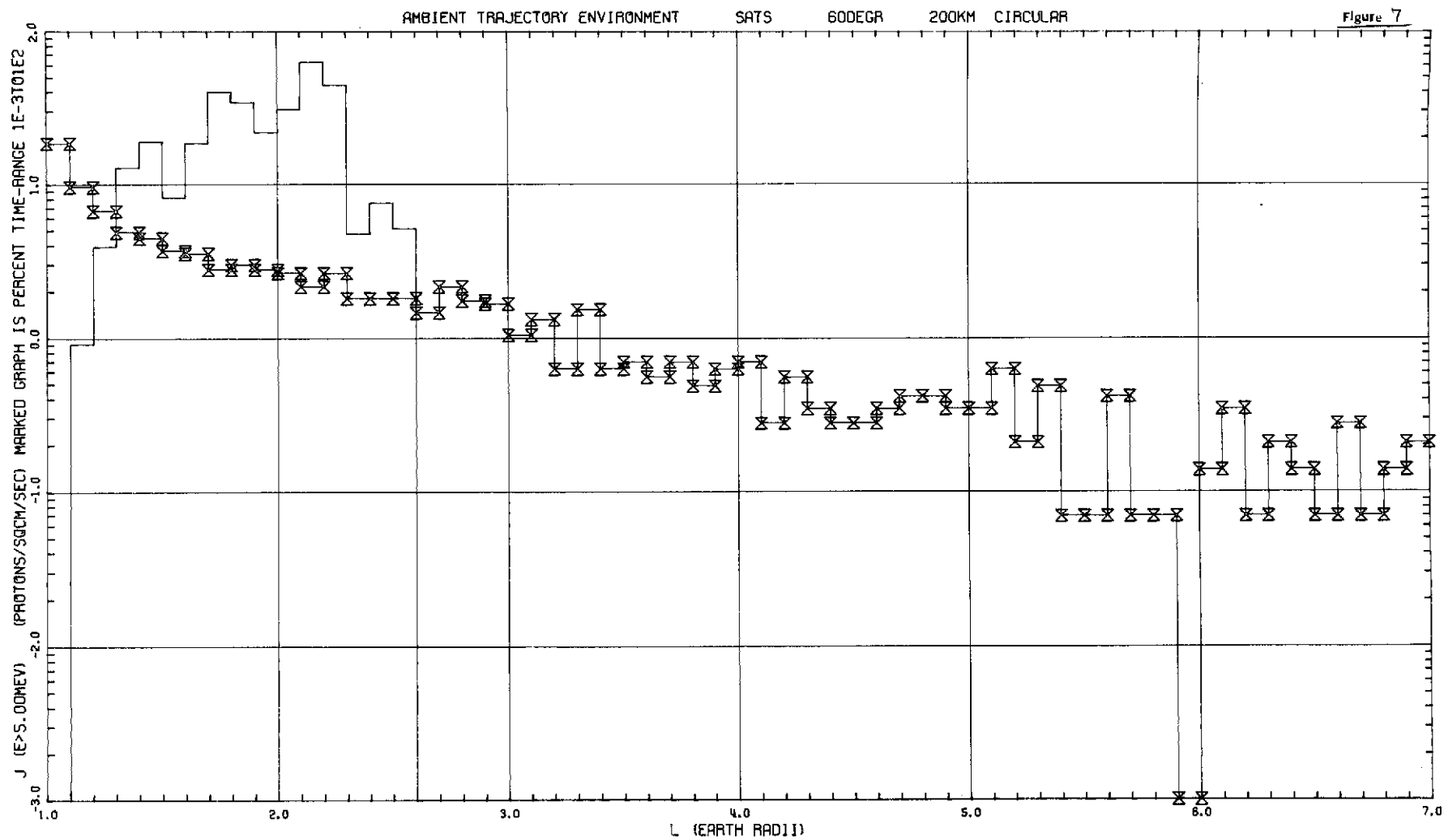
Figure 3

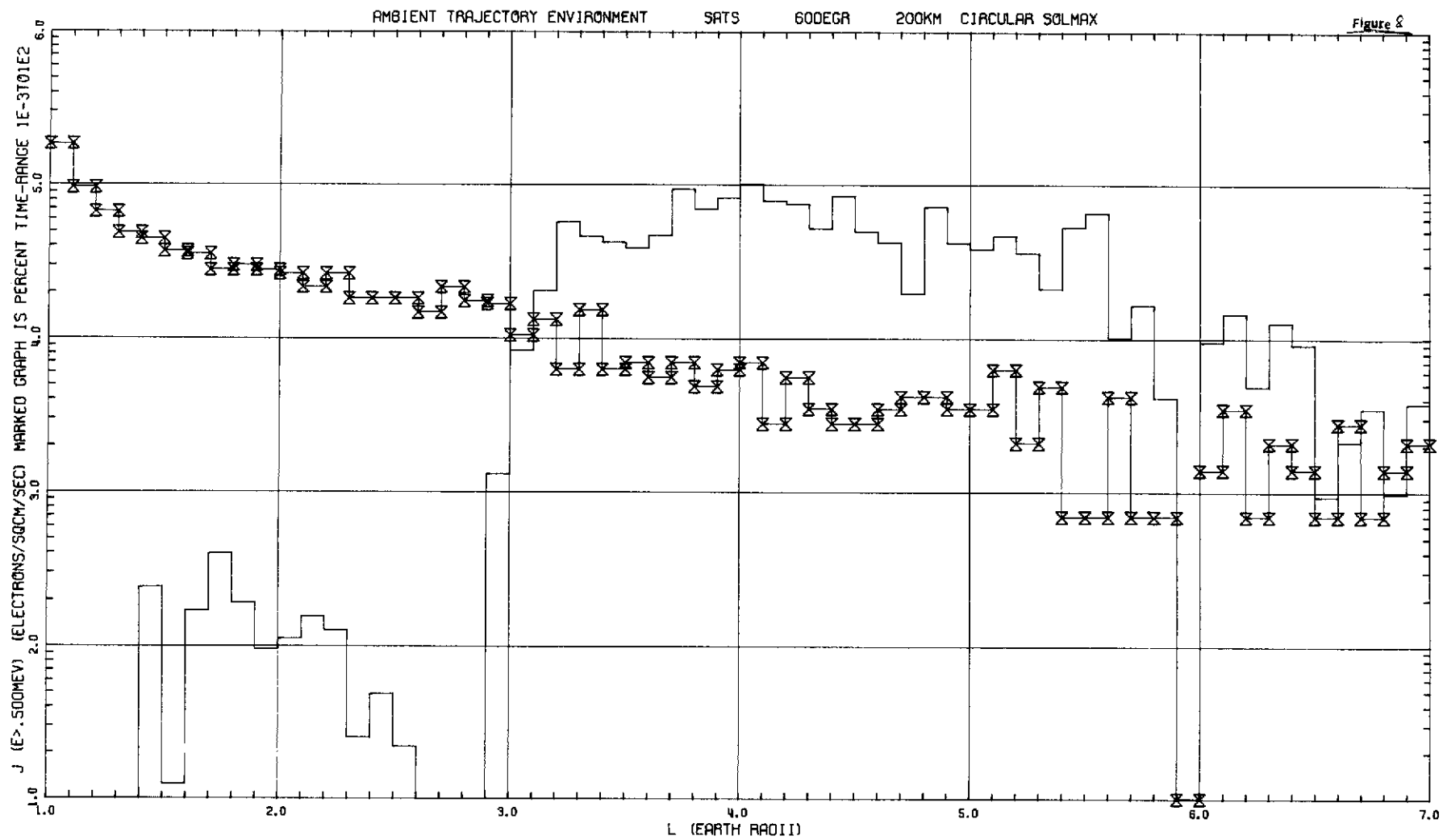


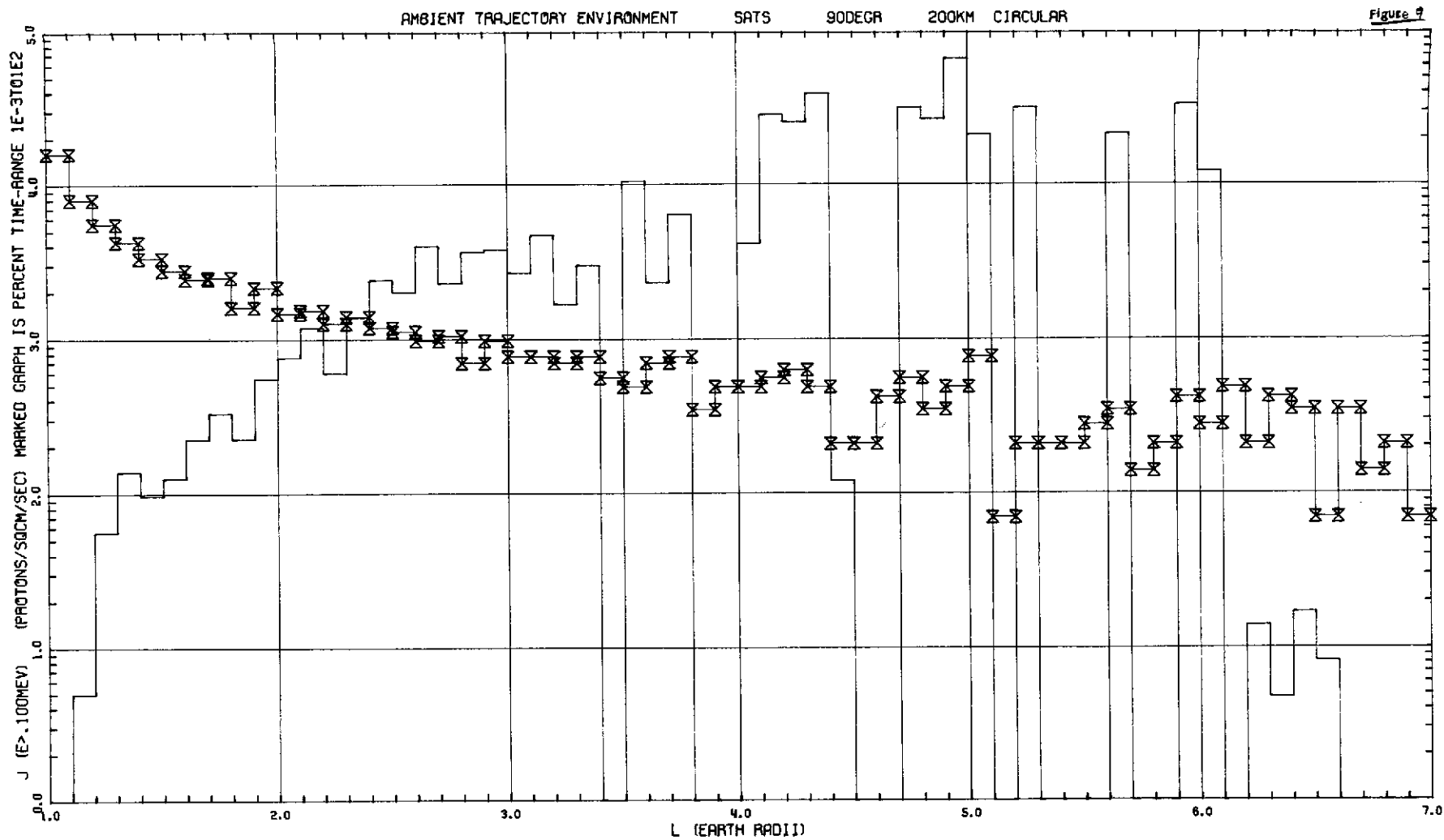


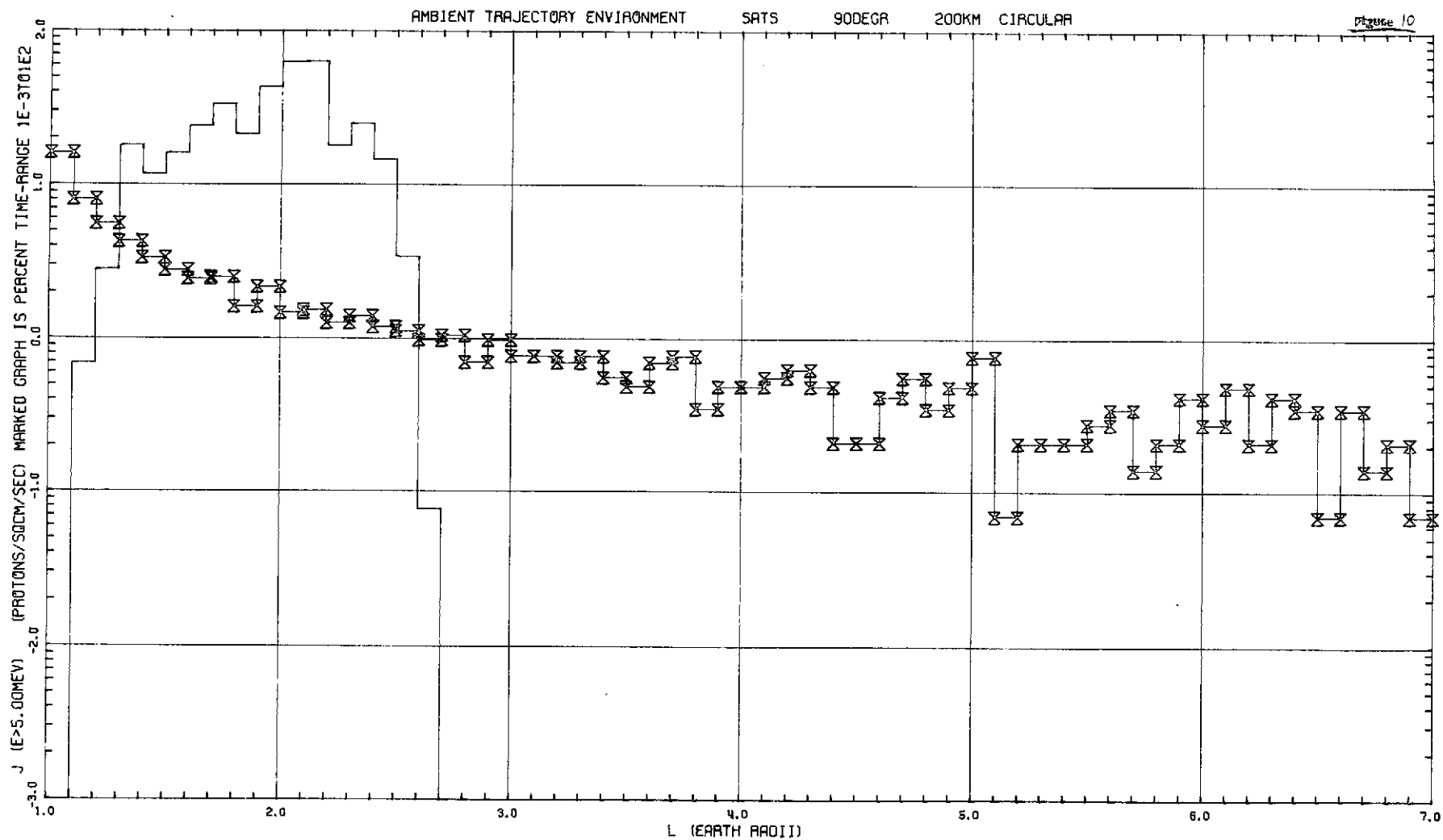












AMBIENT TRAJECTORY ENVIRONMENT

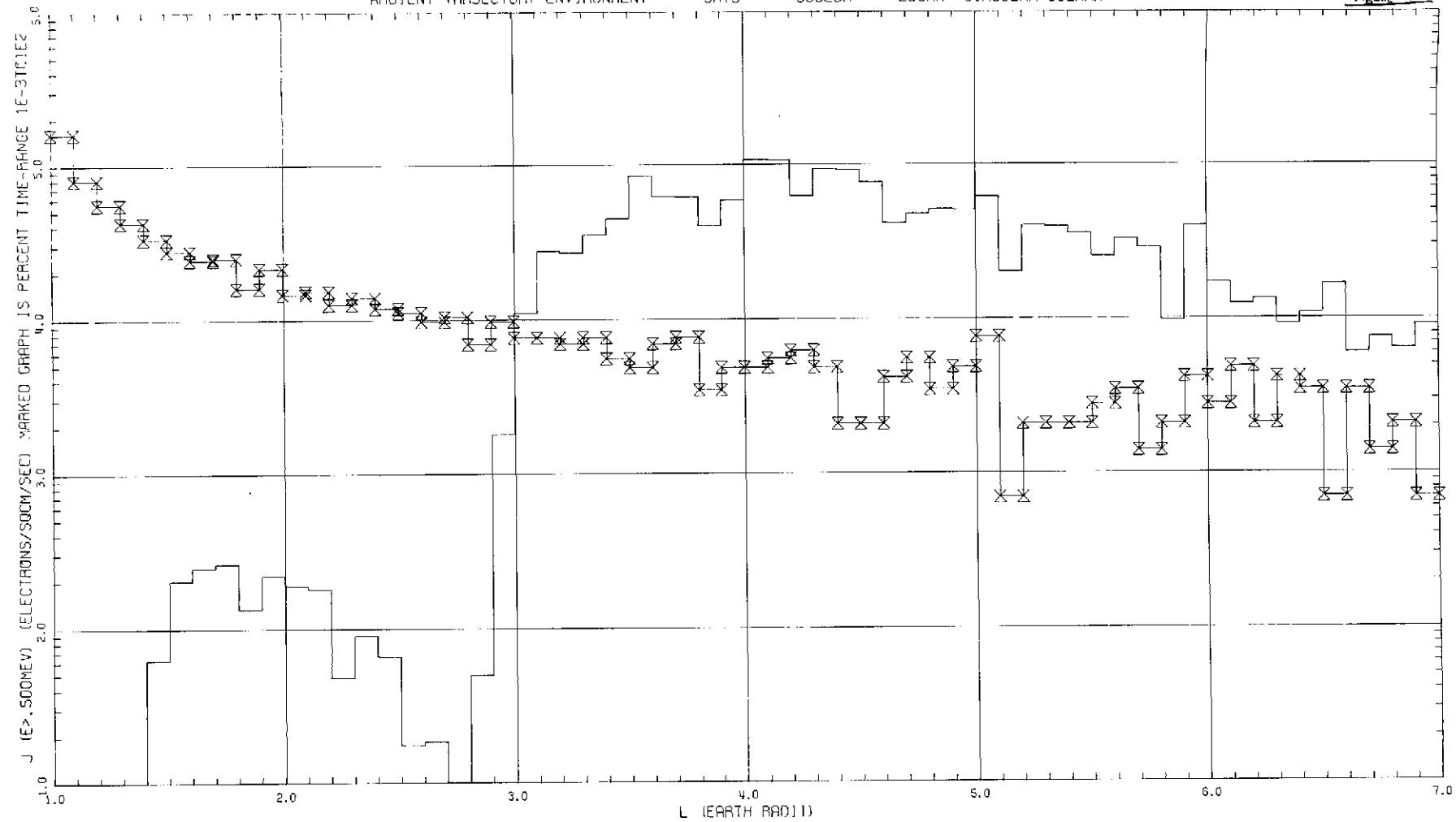
SATS

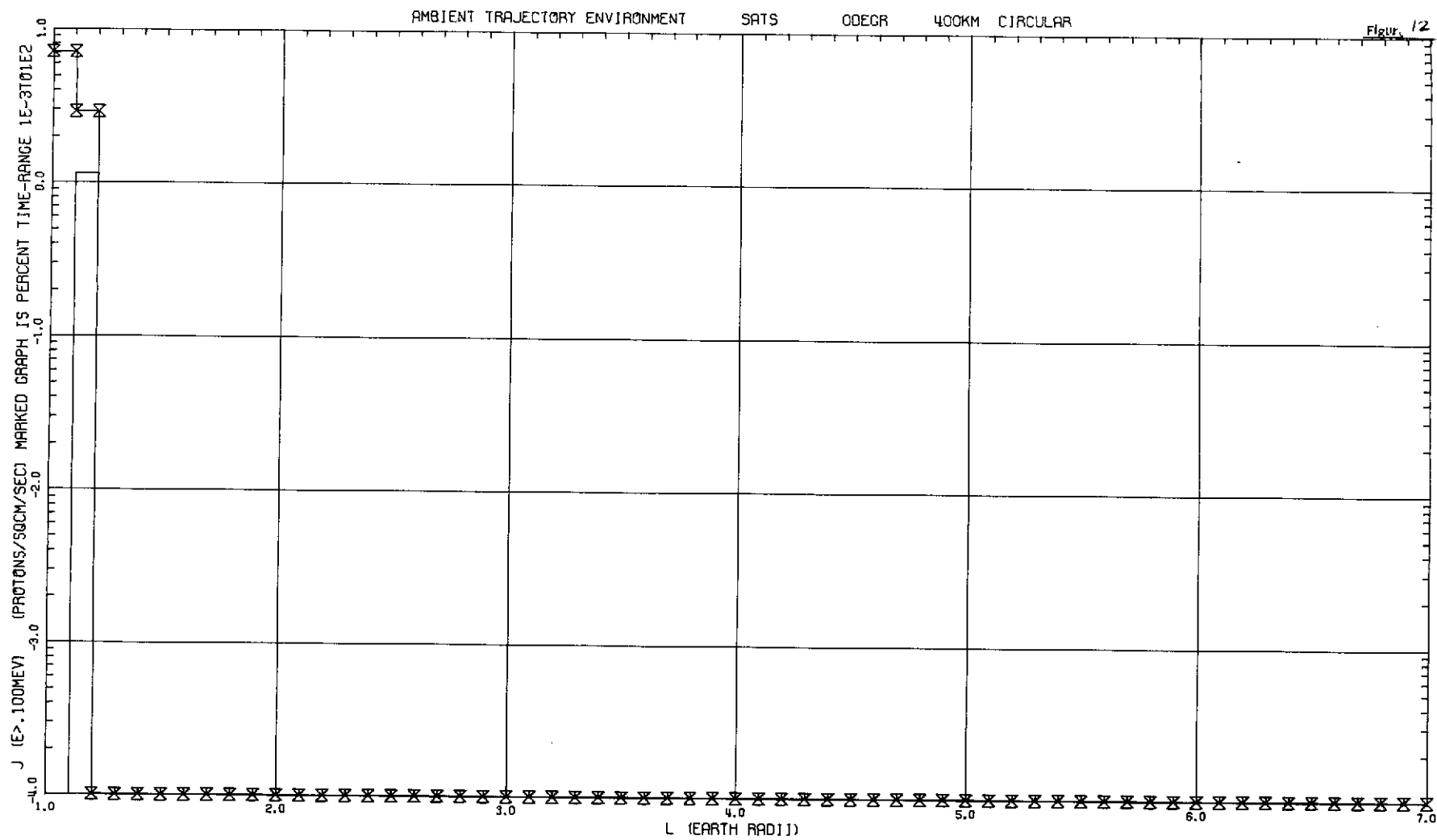
90DEGR

200KM

CIRCULAR SOLMAX

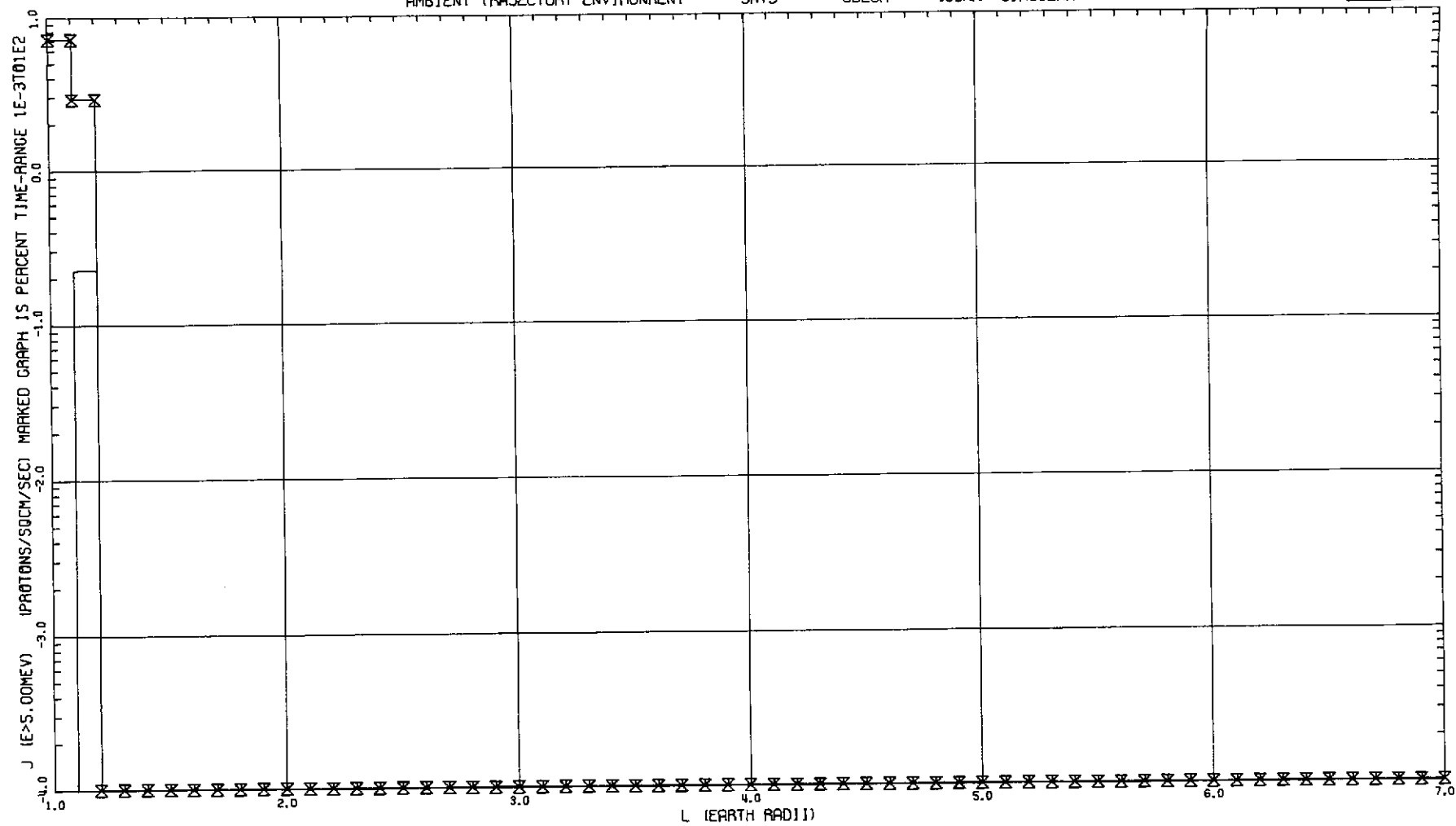
Figure 11

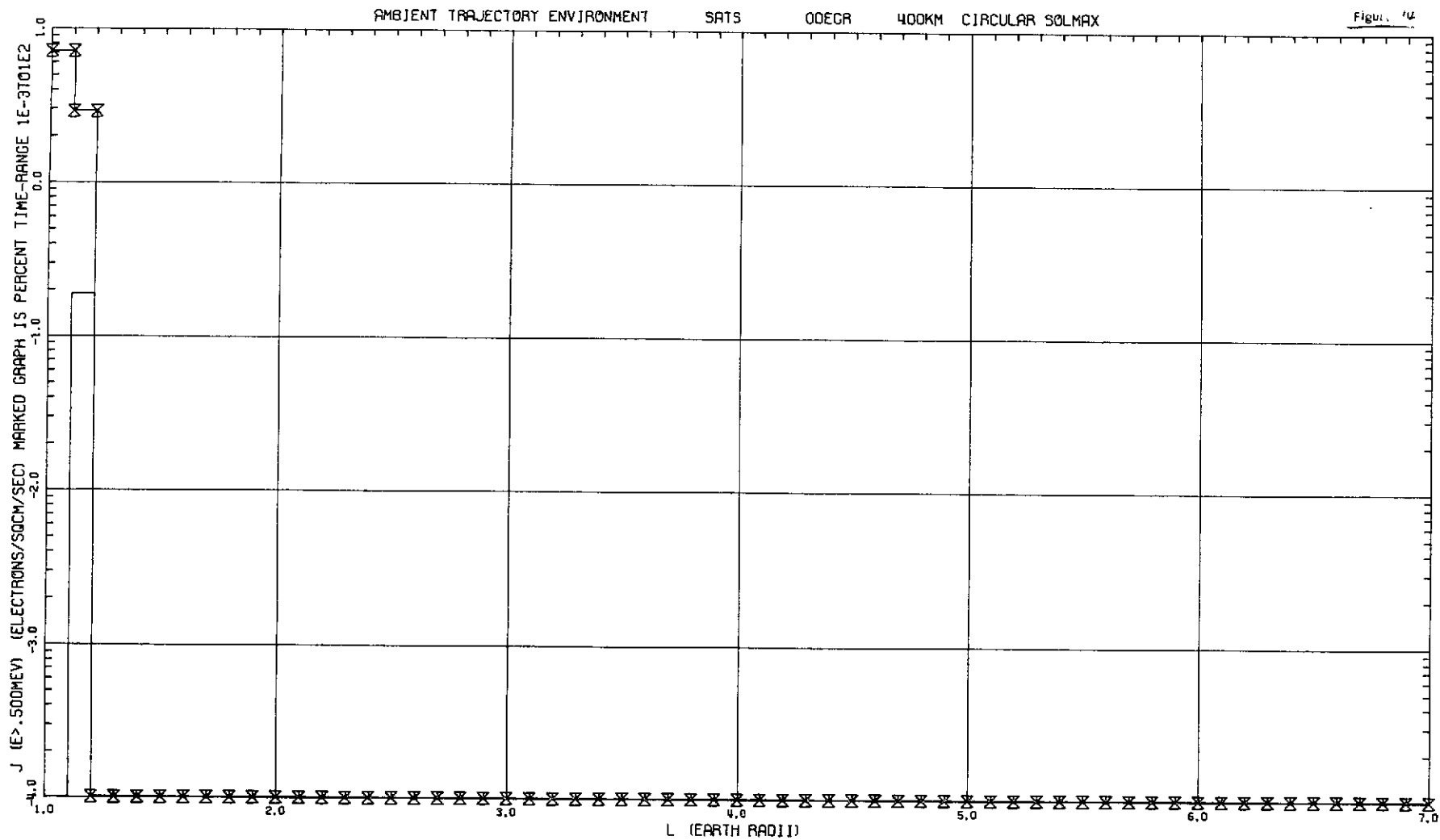




AMBIENT TRAJECTORY ENVIRONMENT SATS ODEGR 400KM CIRCULAR

Figure 13





AMBIENT TRAJECTORY ENVIRONMENT

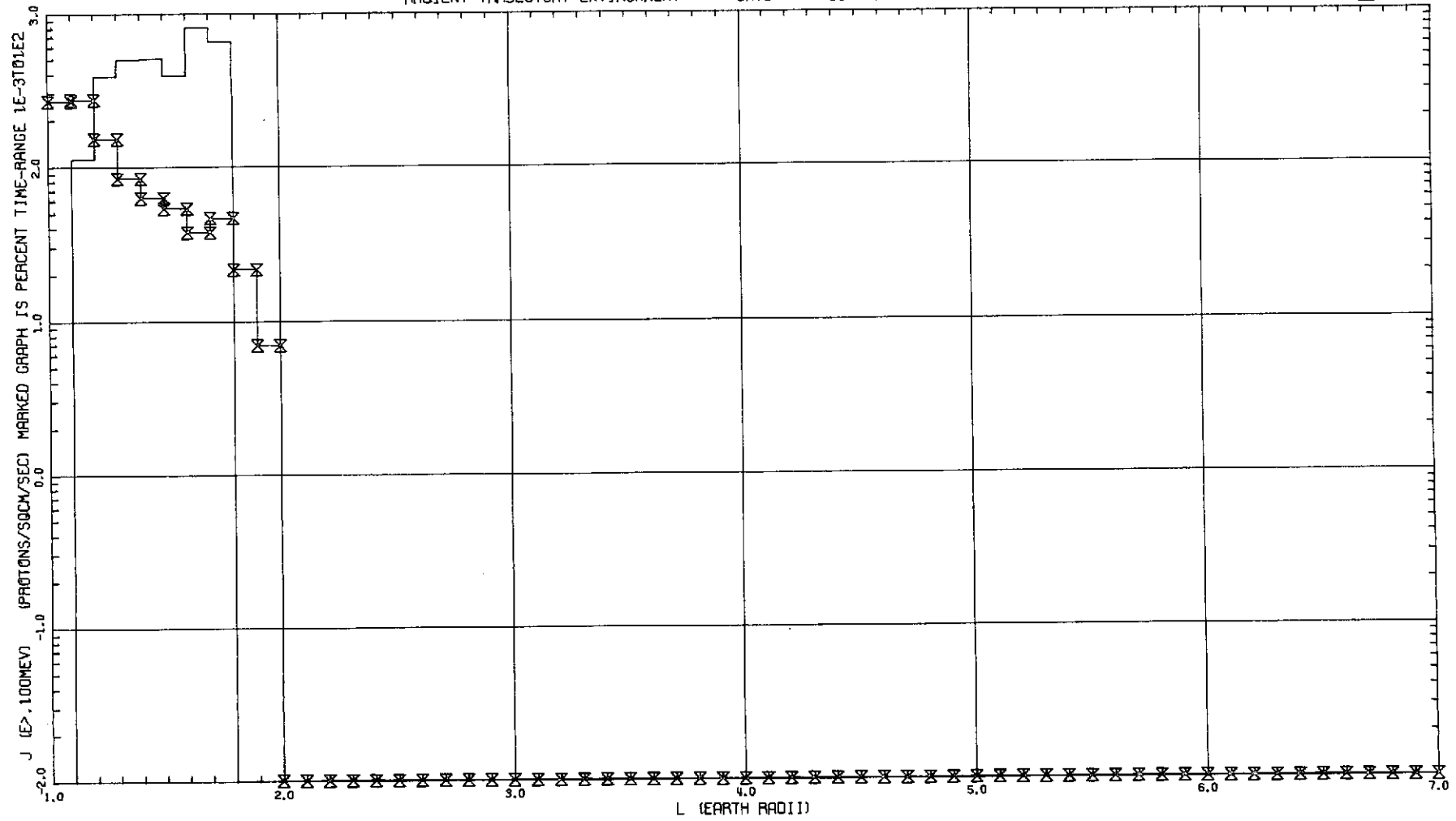
SRTS

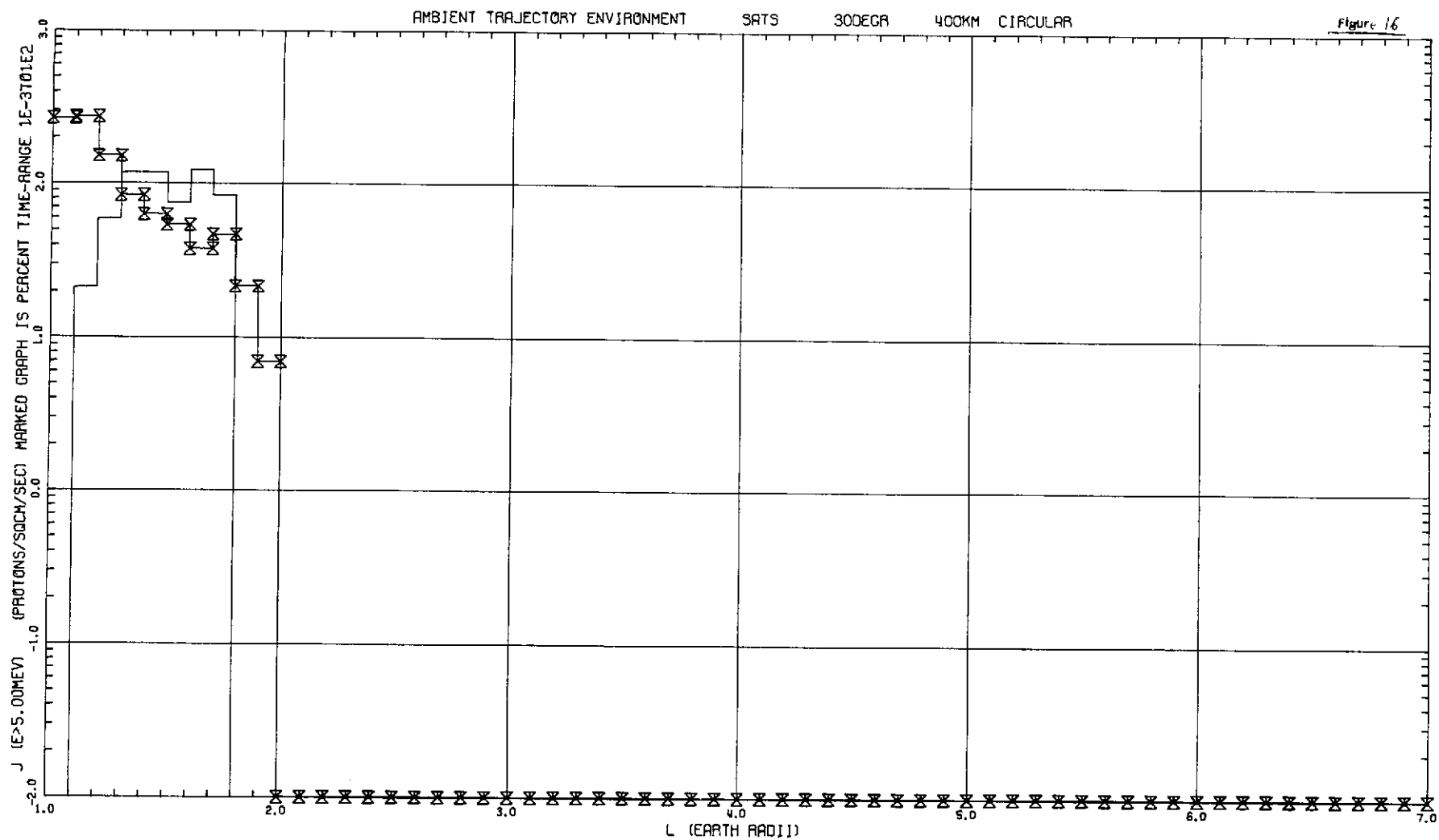
30DEGR

400KM

CIRCULAR

Figure 15





AMBIENT TRAJECTORY ENVIRONMENT

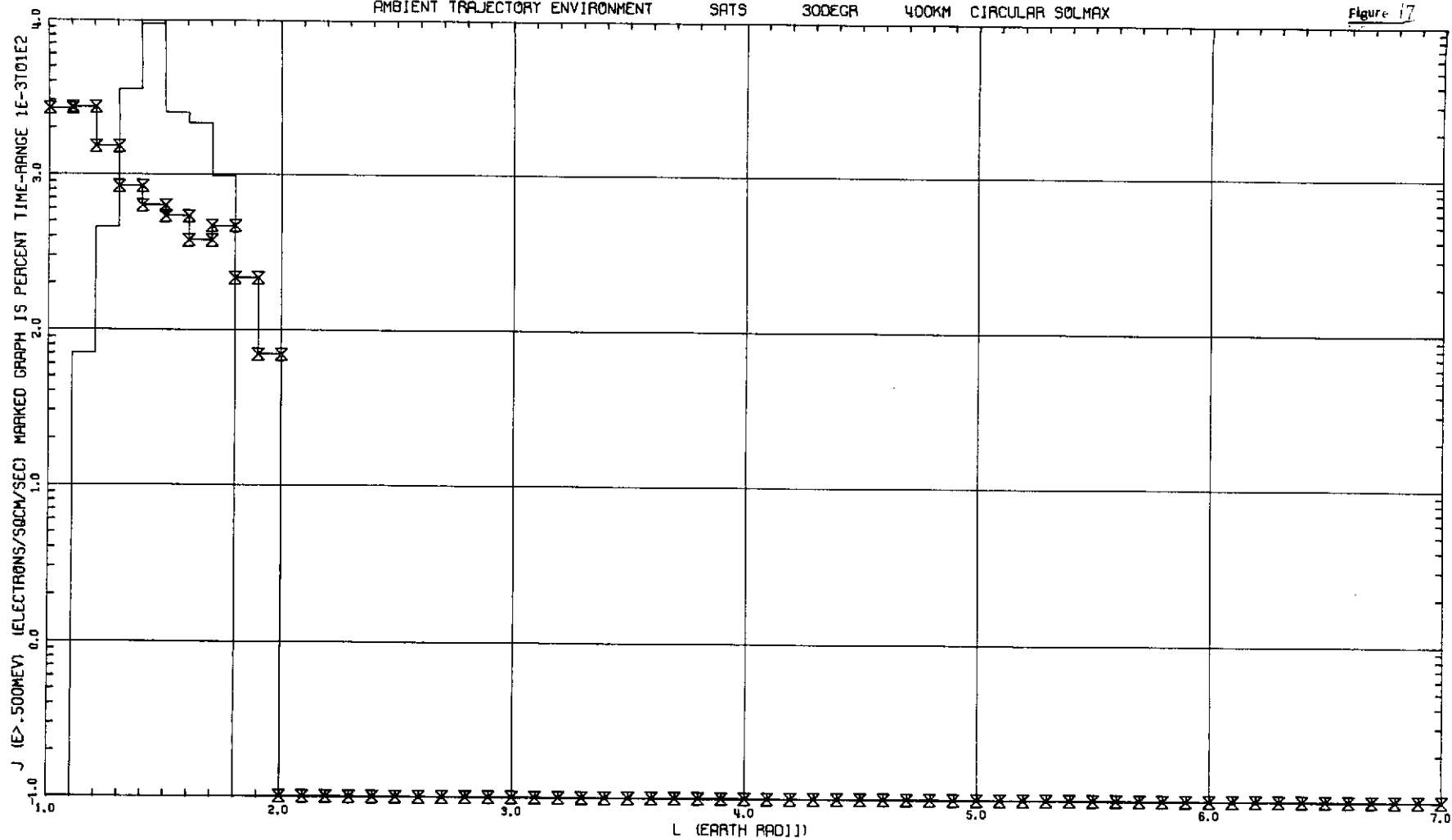
SATS

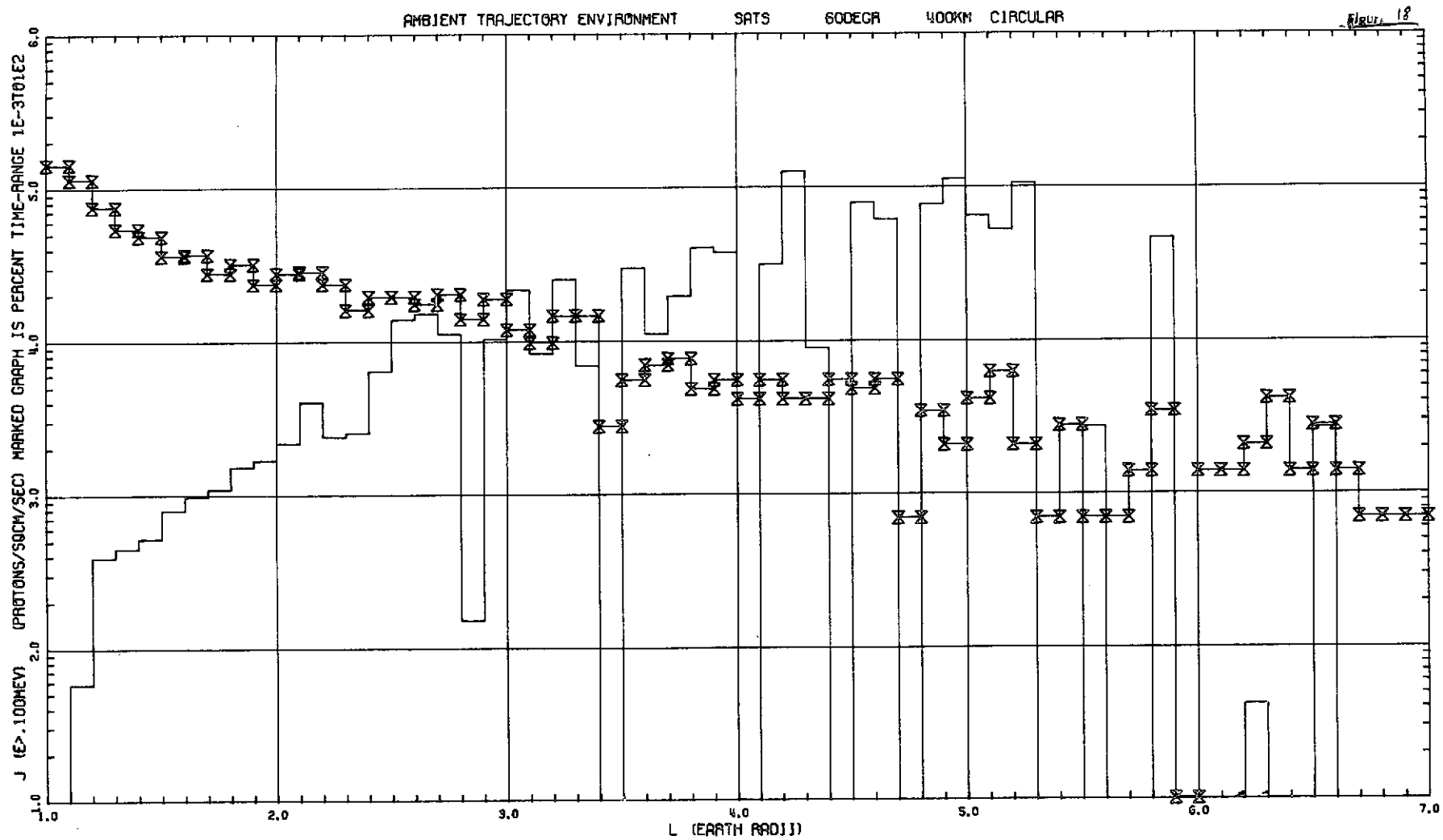
30DEGR

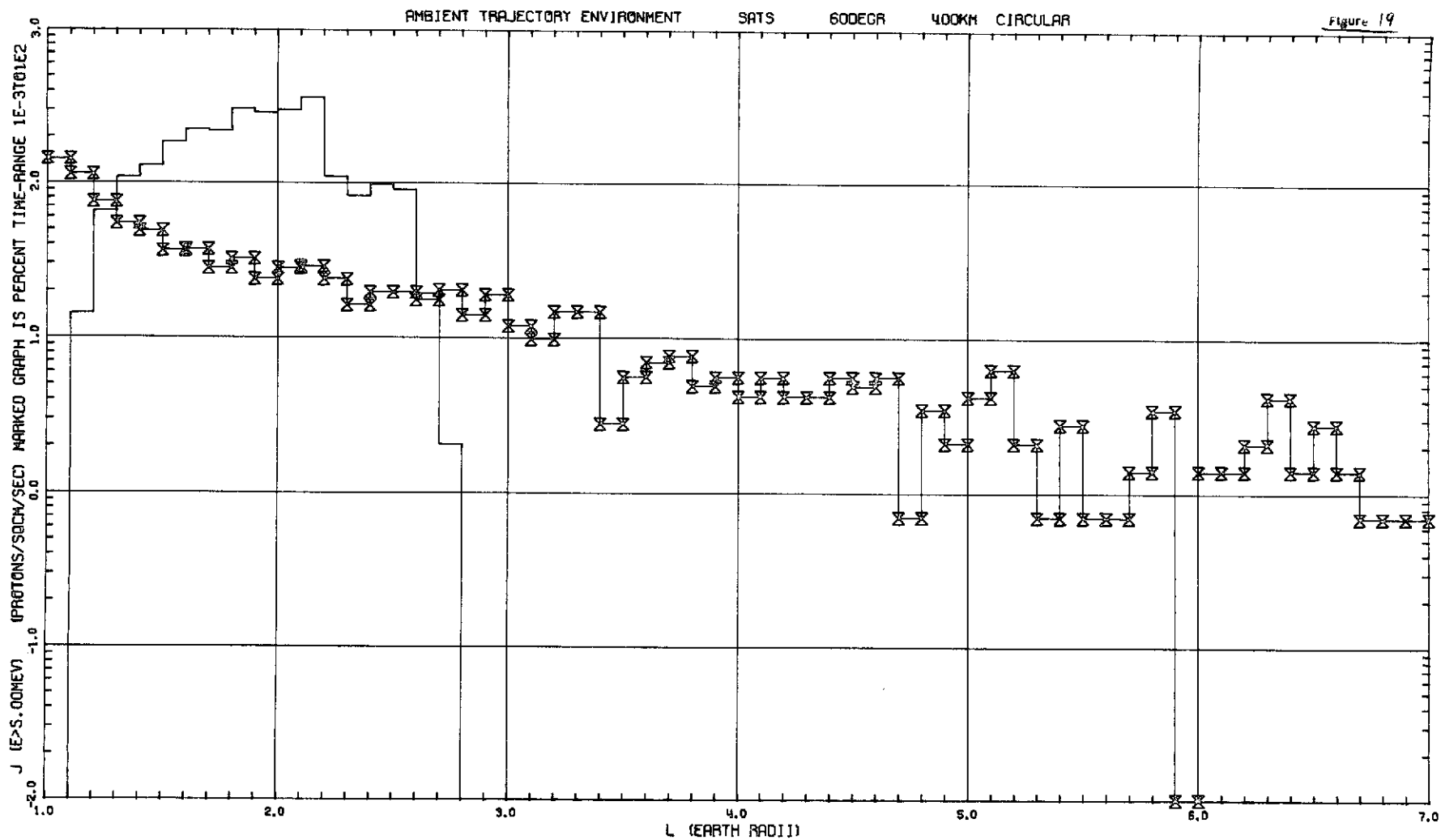
400KM

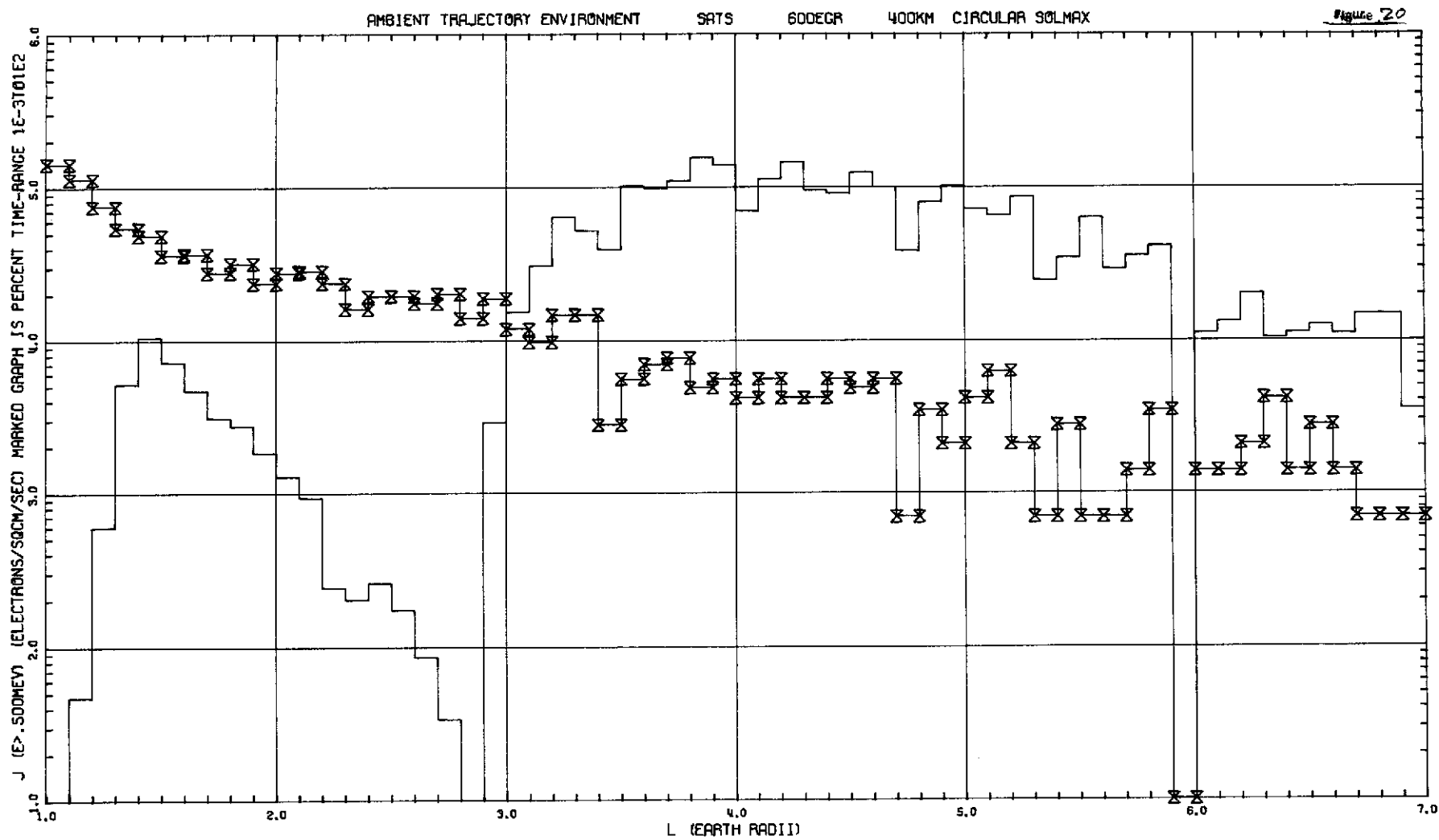
CIRCULAR SOLMAX

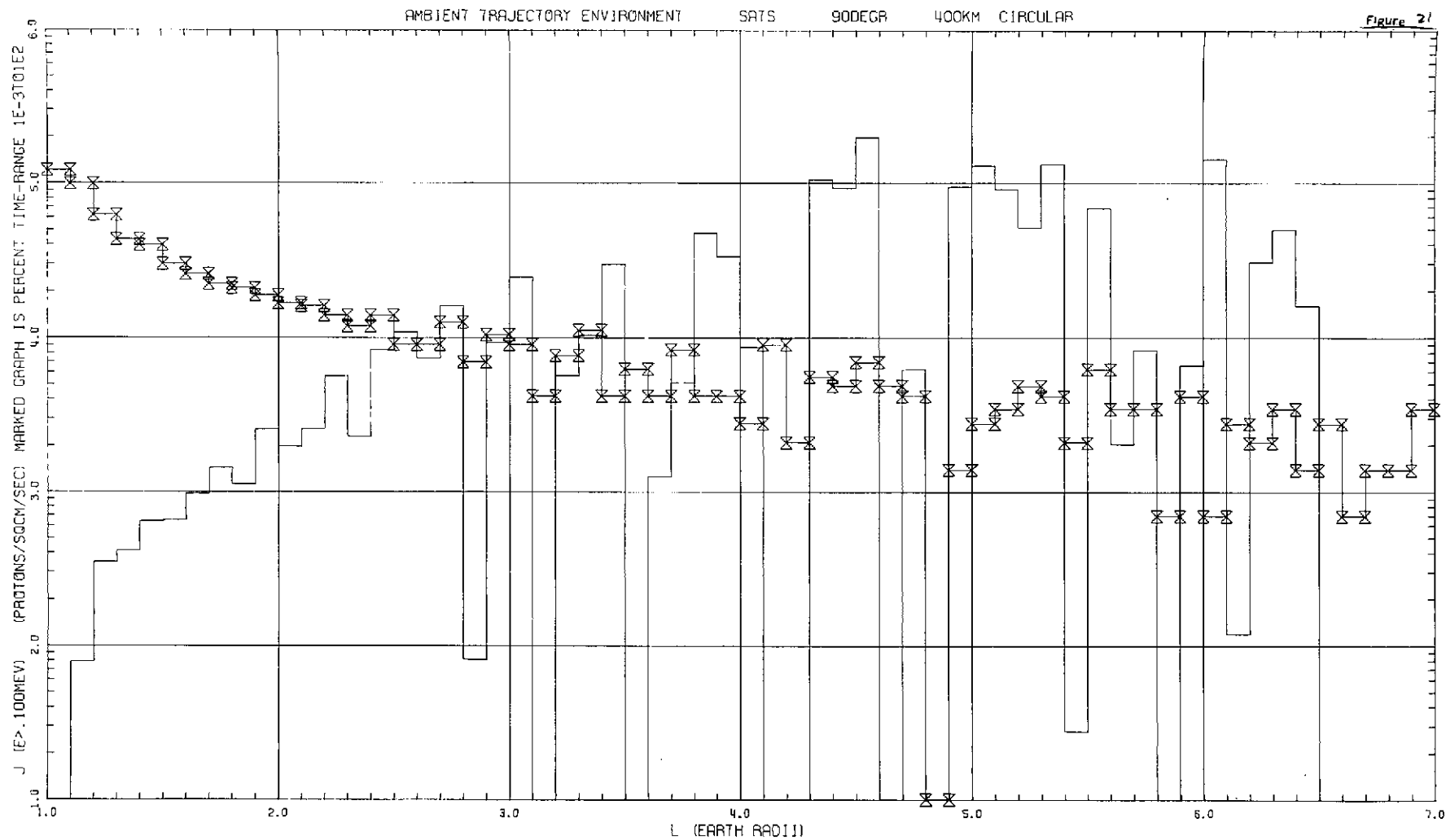
Figure 17

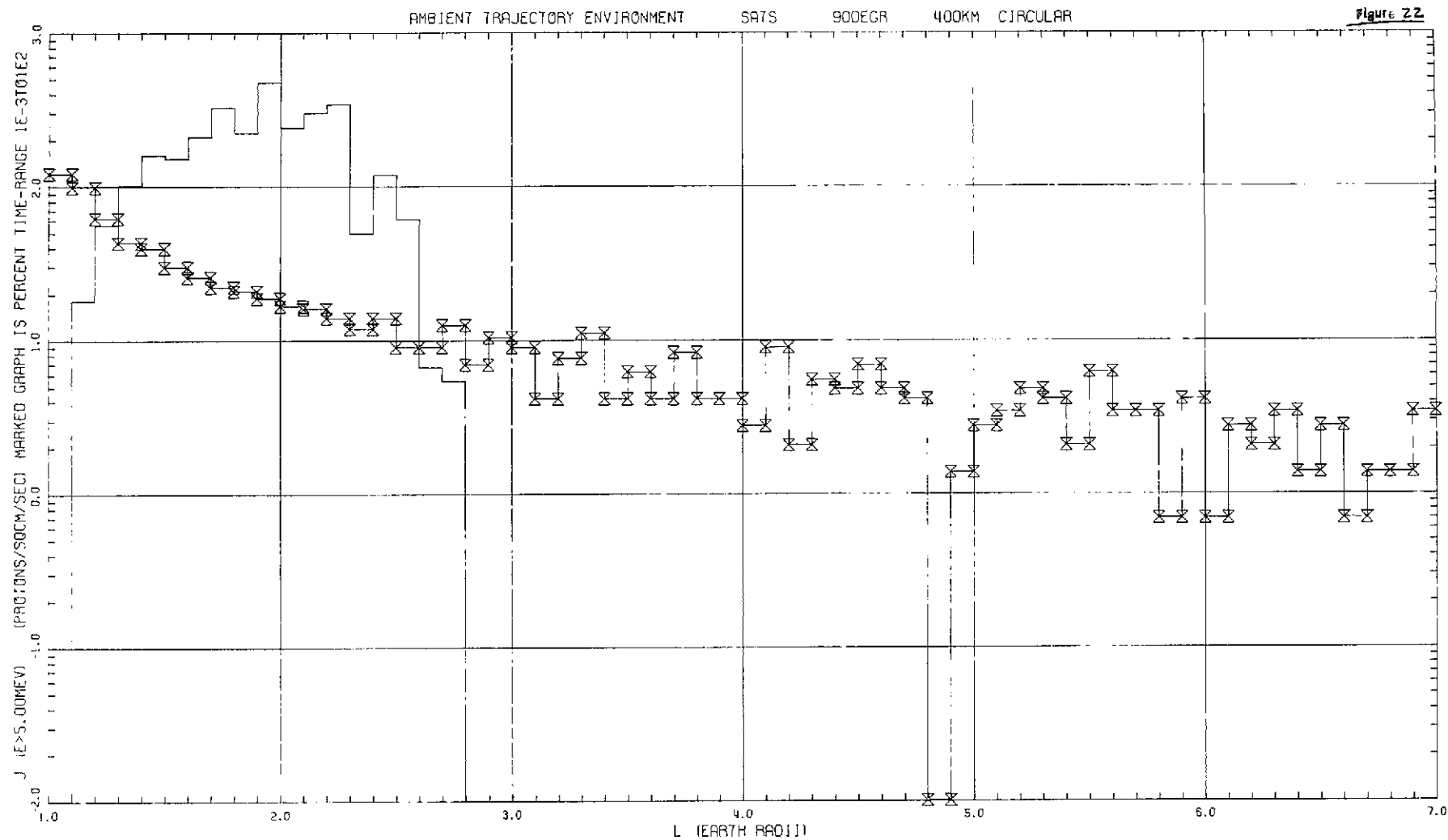


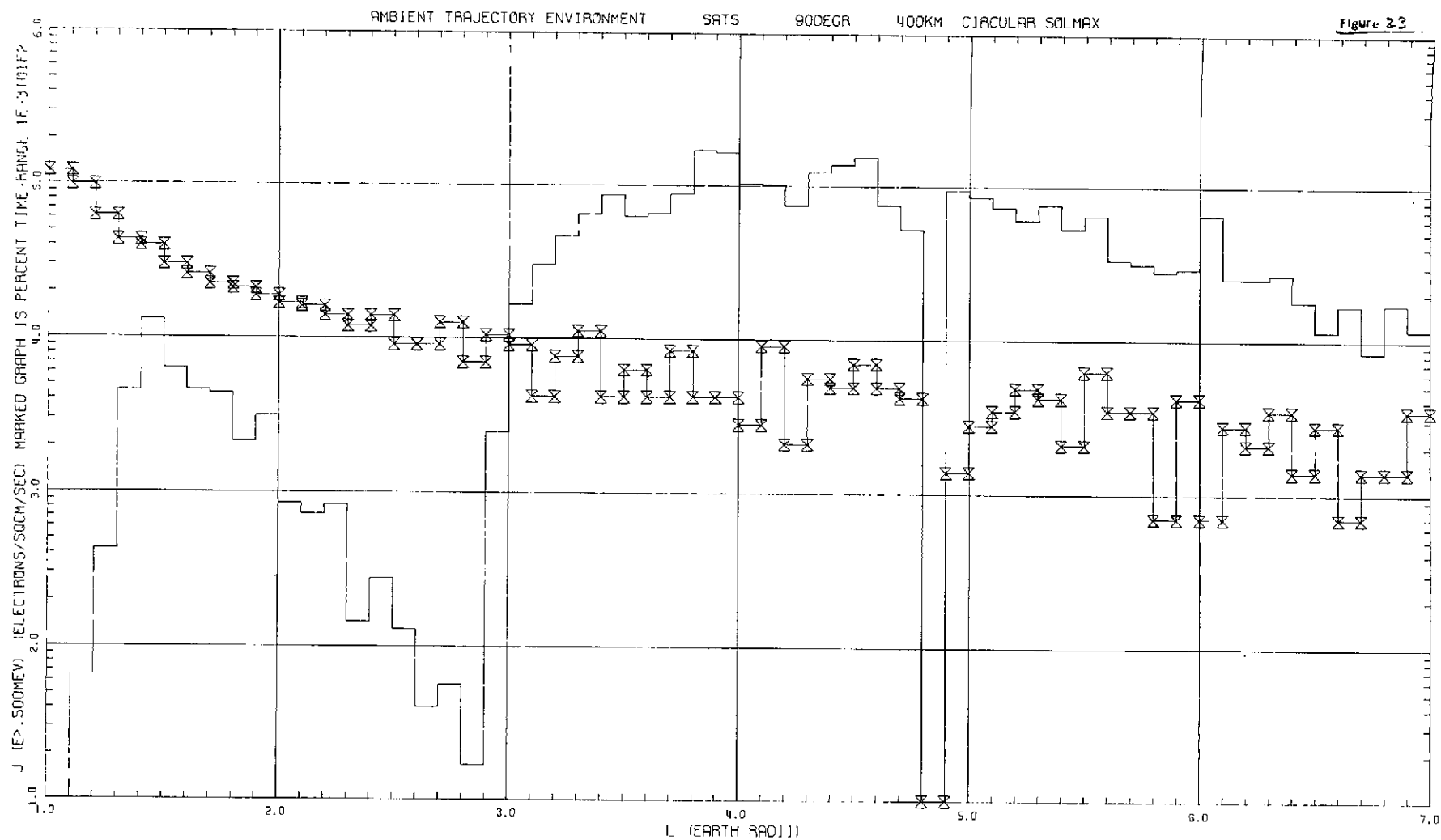


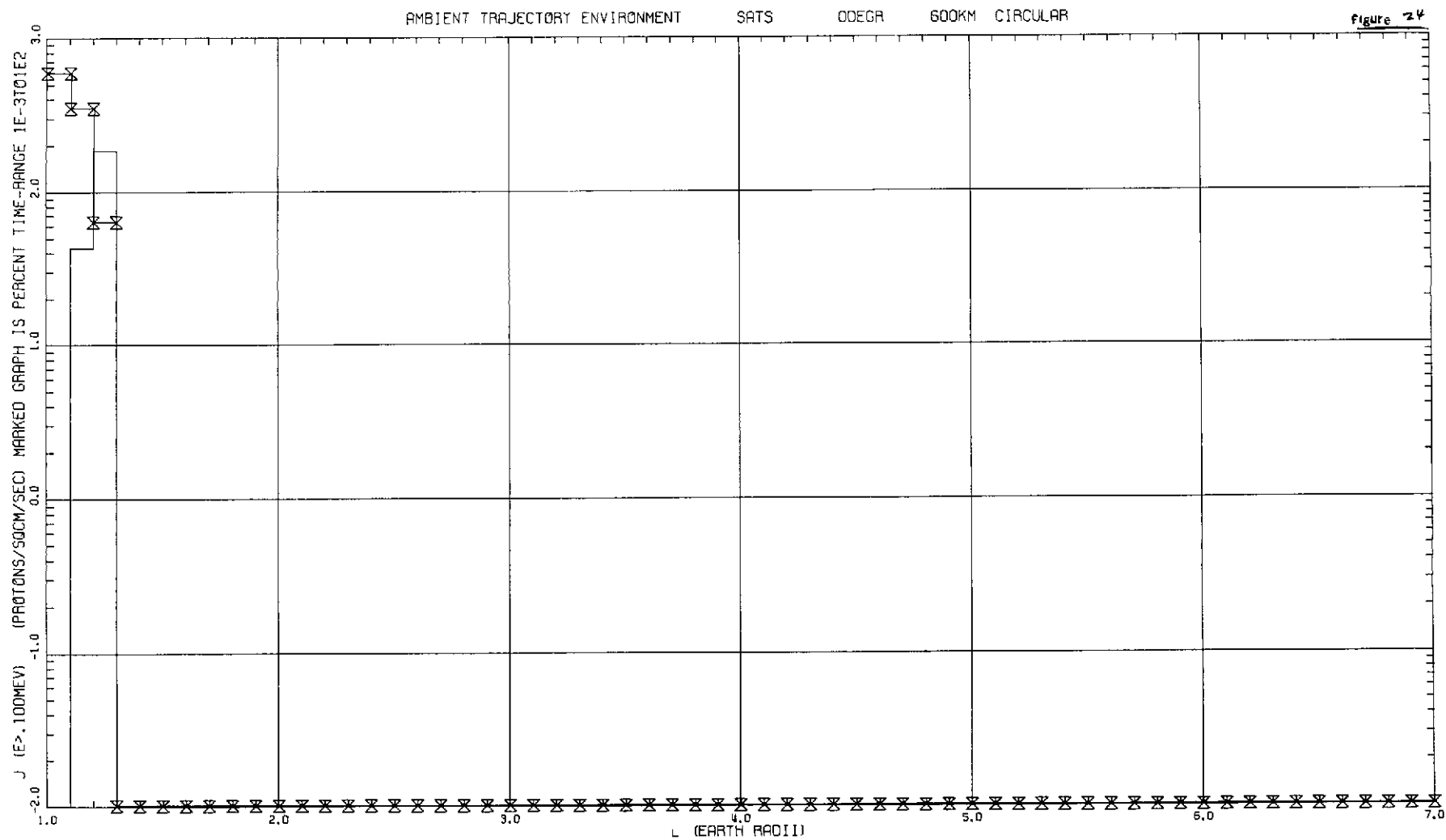












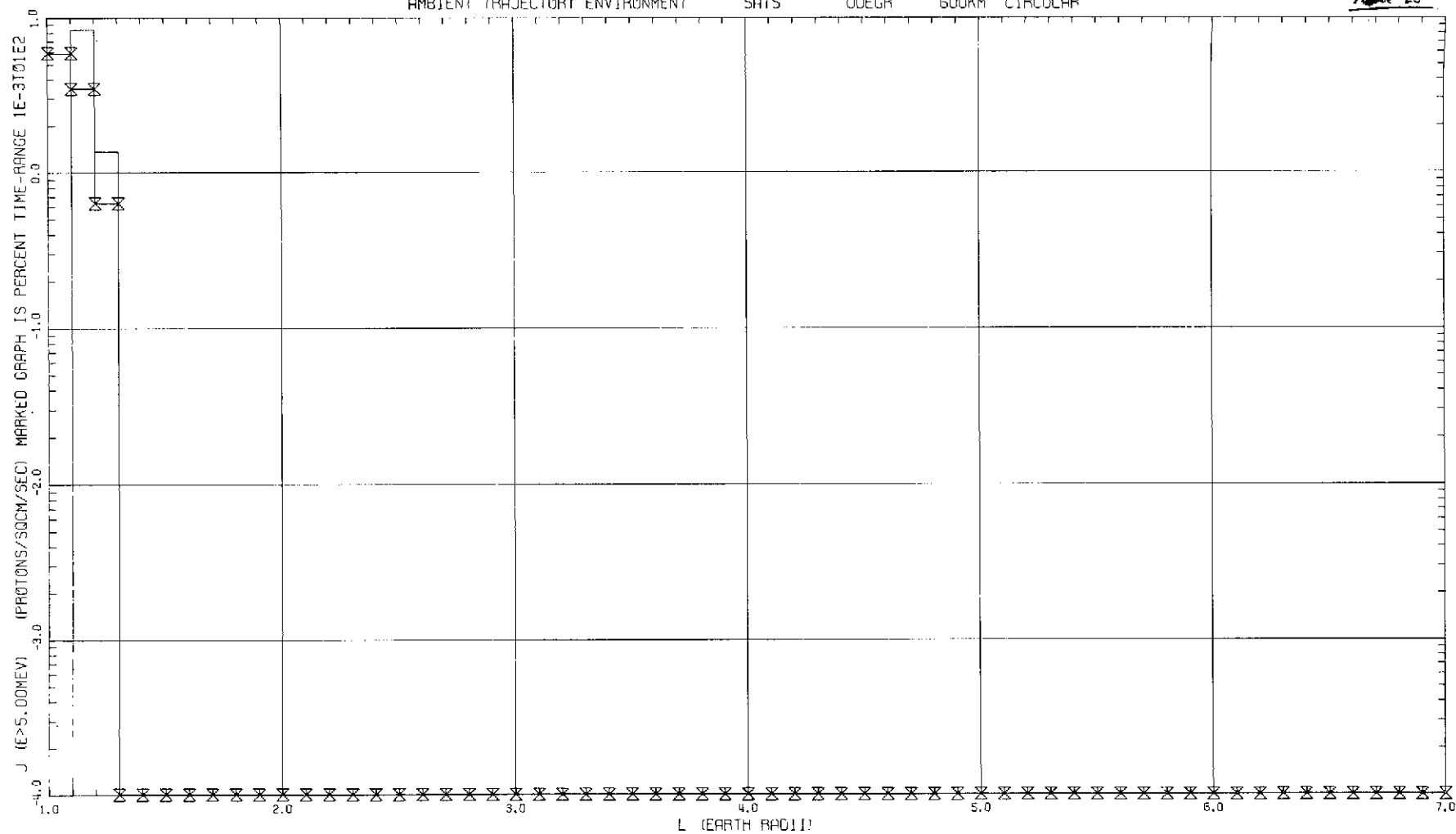
AMBIENT TRAJECTORY ENVIRONMENT

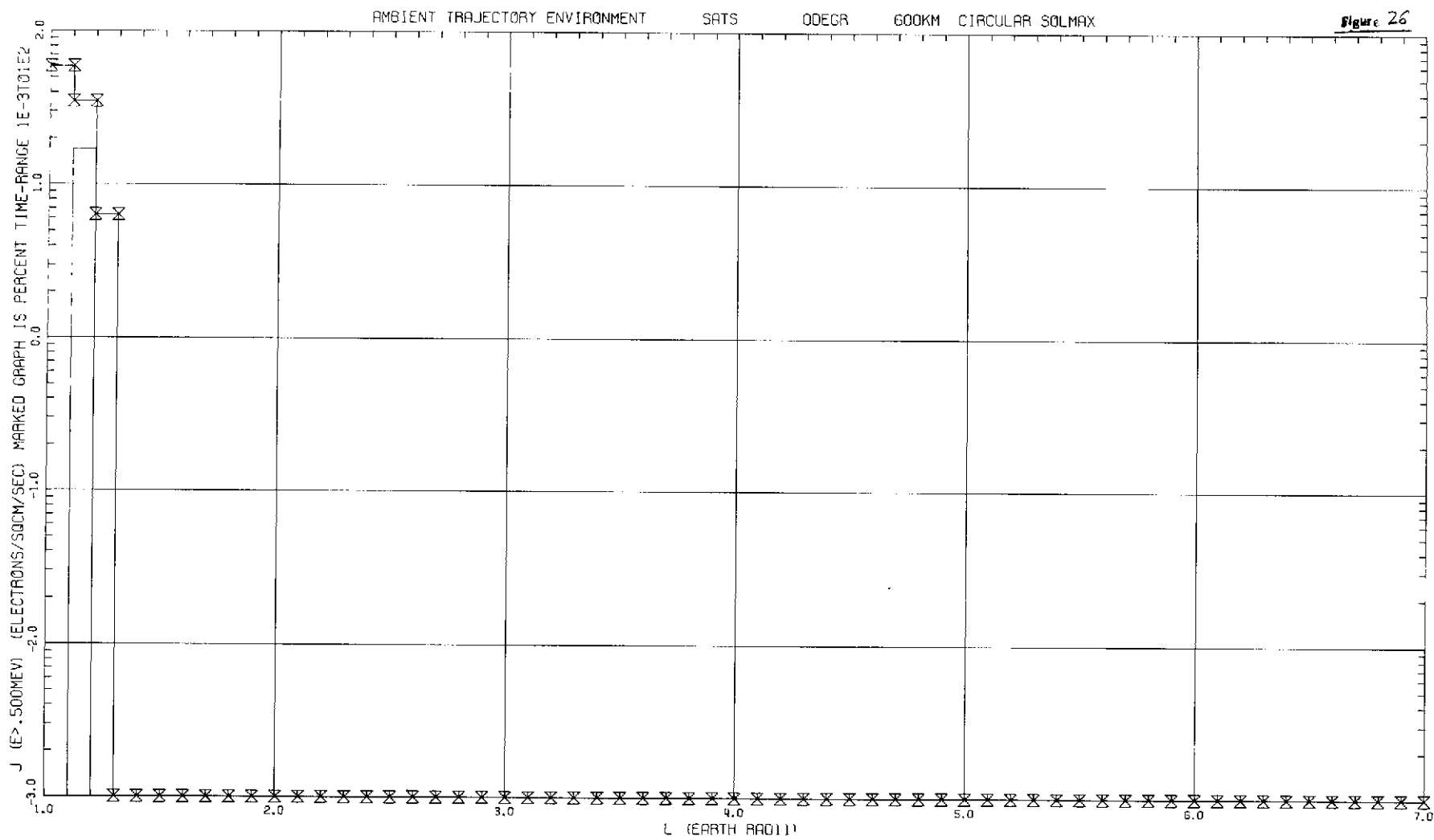
SATS

ODEGR

600KM CIRCULAR

Figure 25





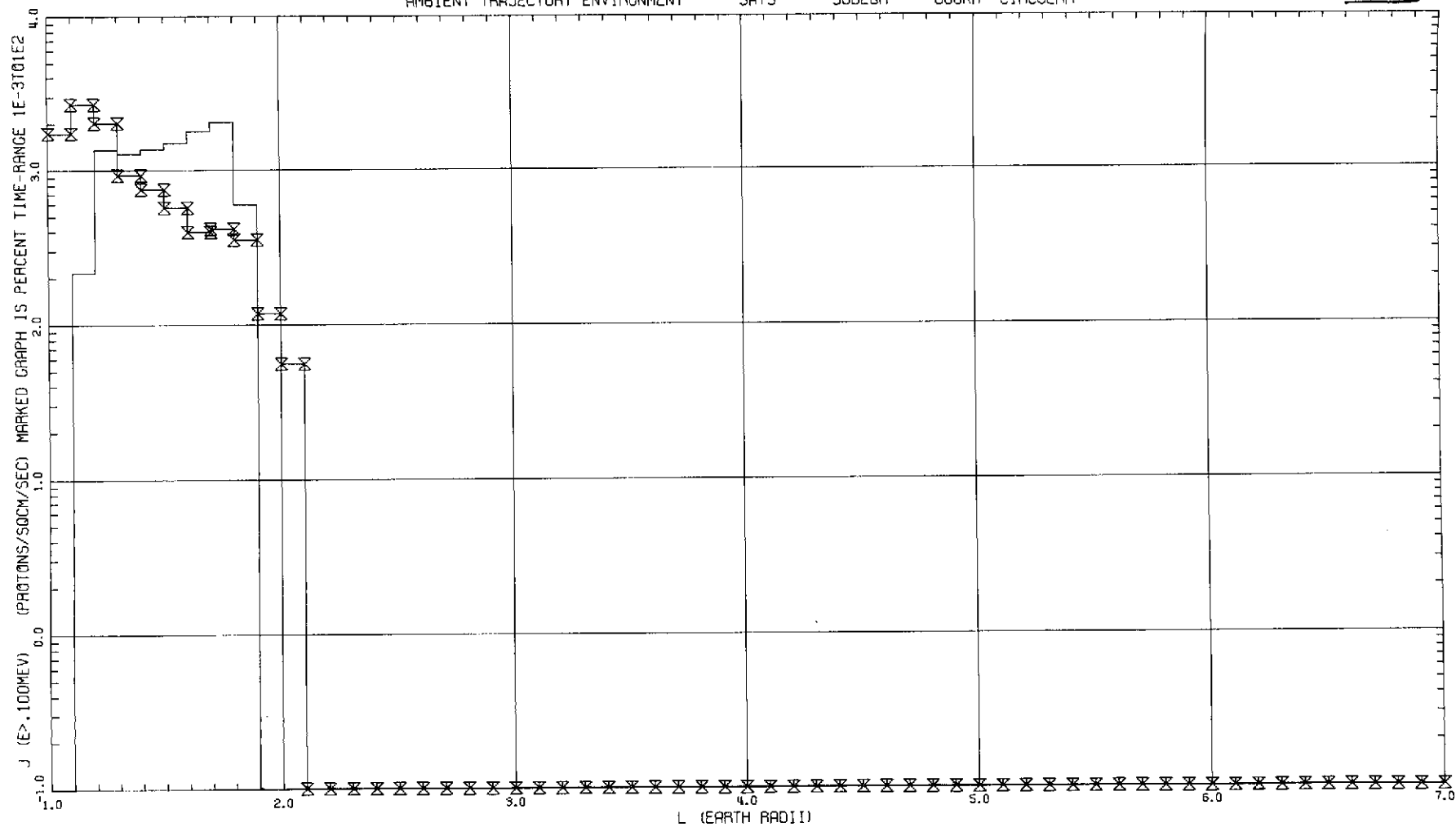
AMBIENT TRAJECTORY ENVIRONMENT

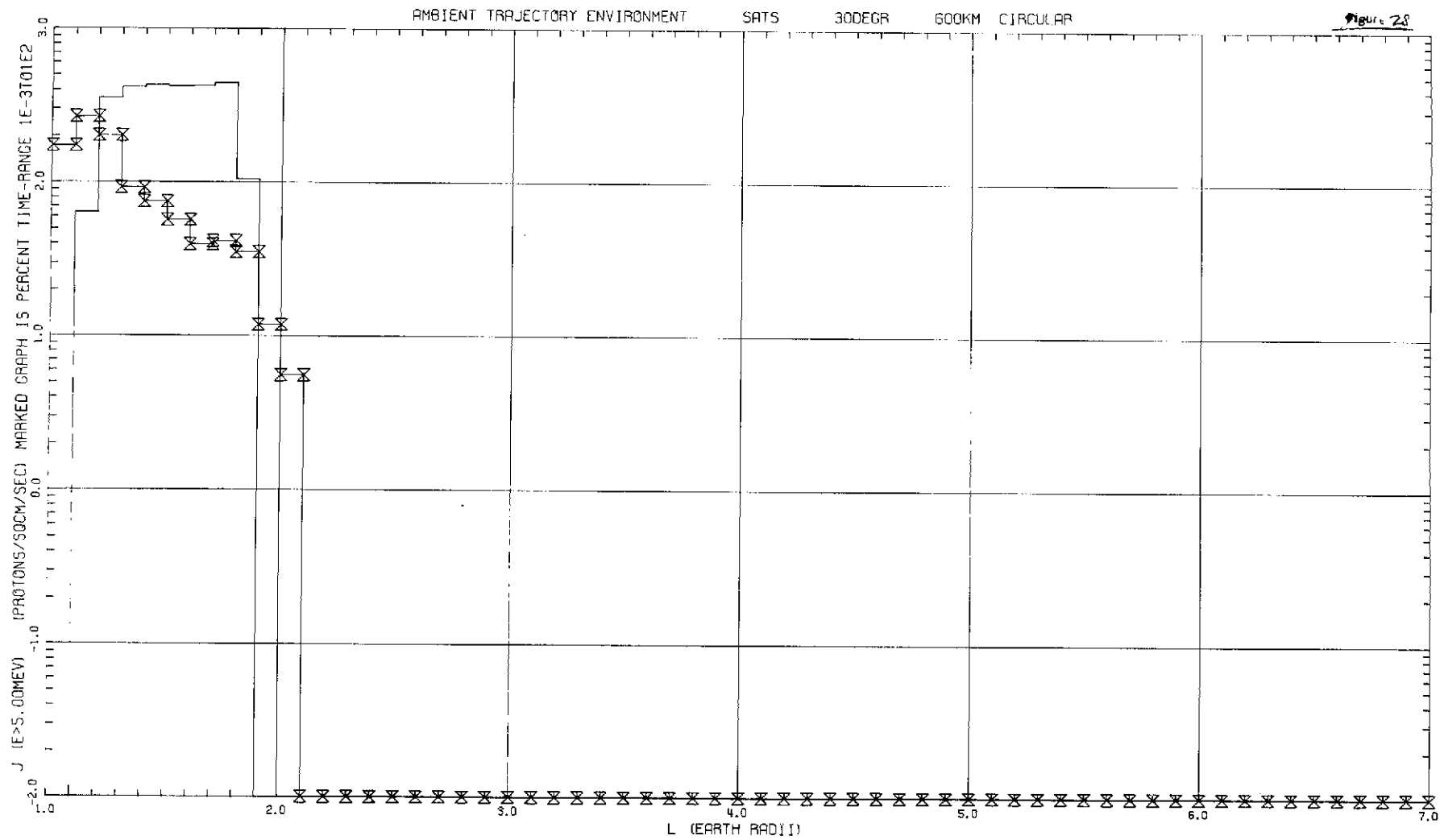
SATS

30DEGR

600KM CIRCULAR

Figure 27





AMBIENT TRAJECTORY ENVIRONMENT

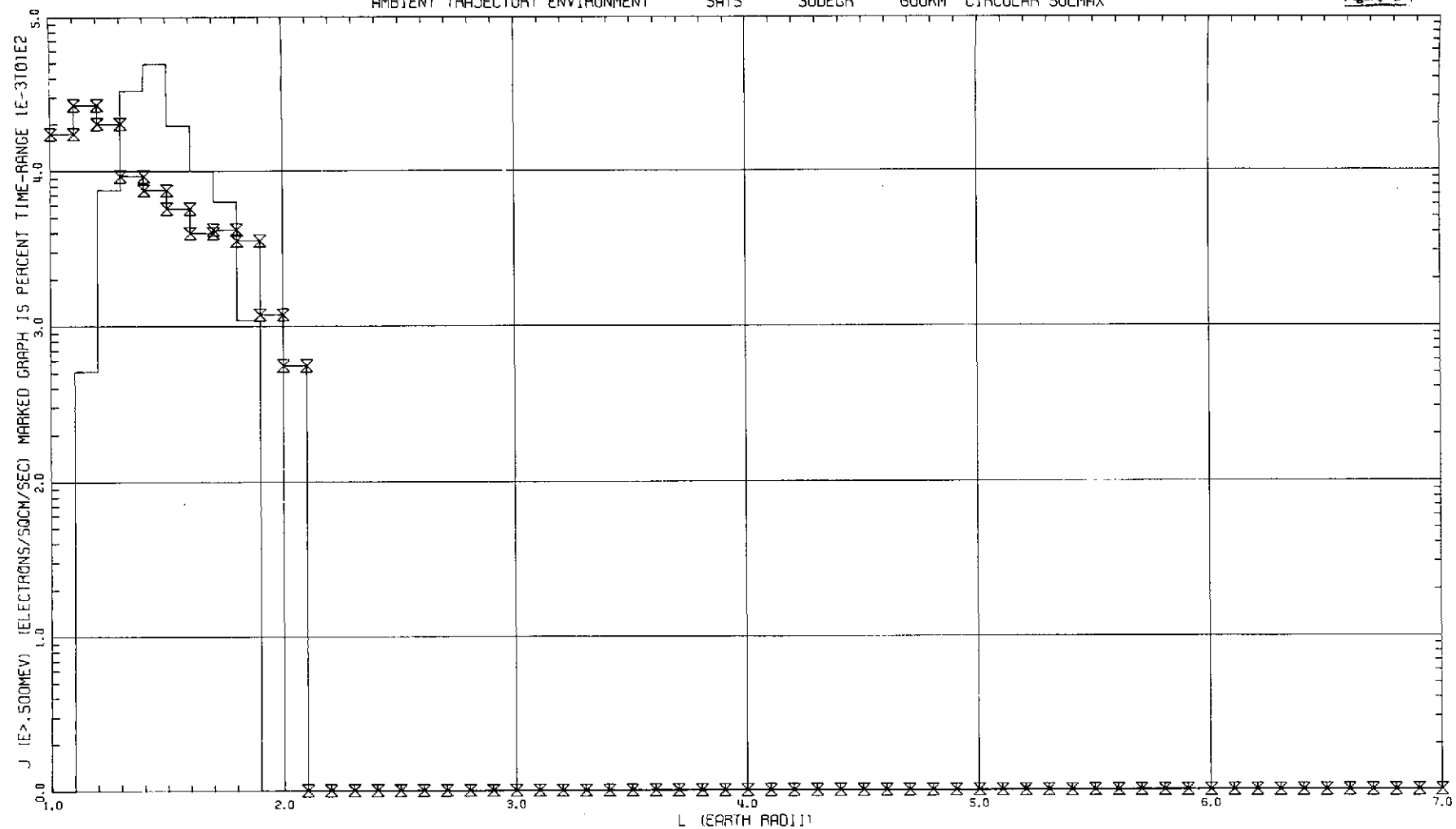
SATS

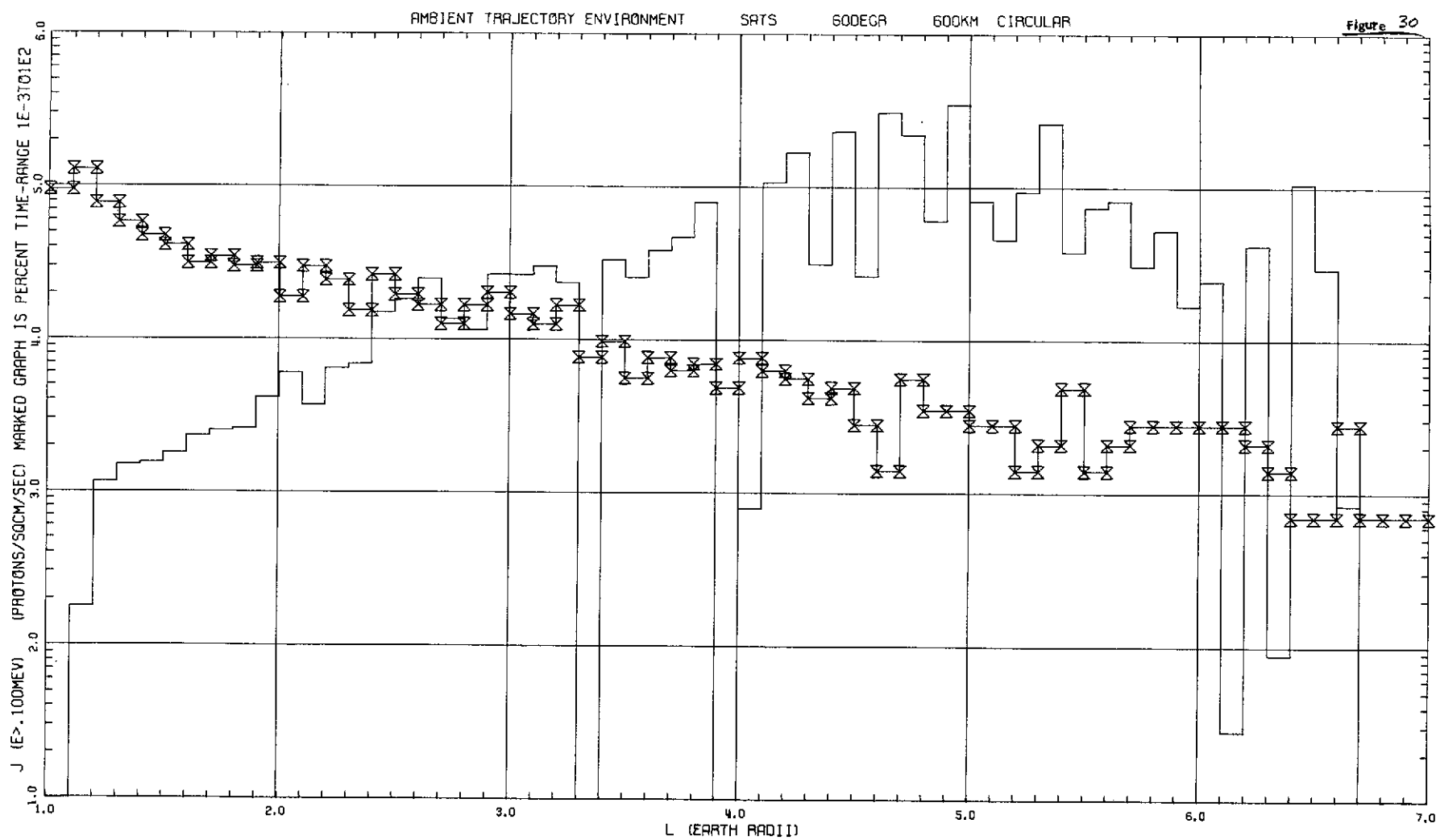
30DEGR

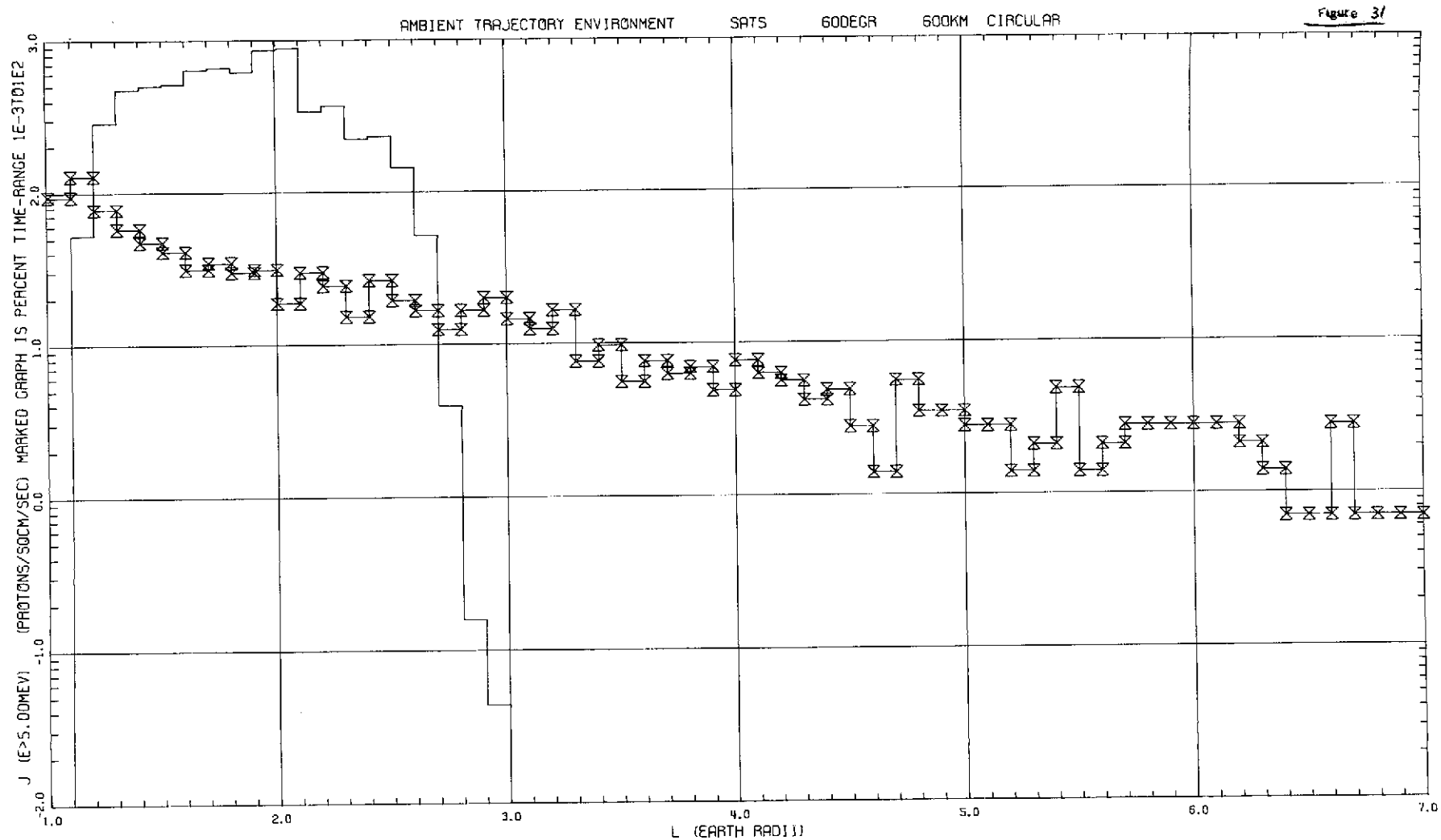
600KM

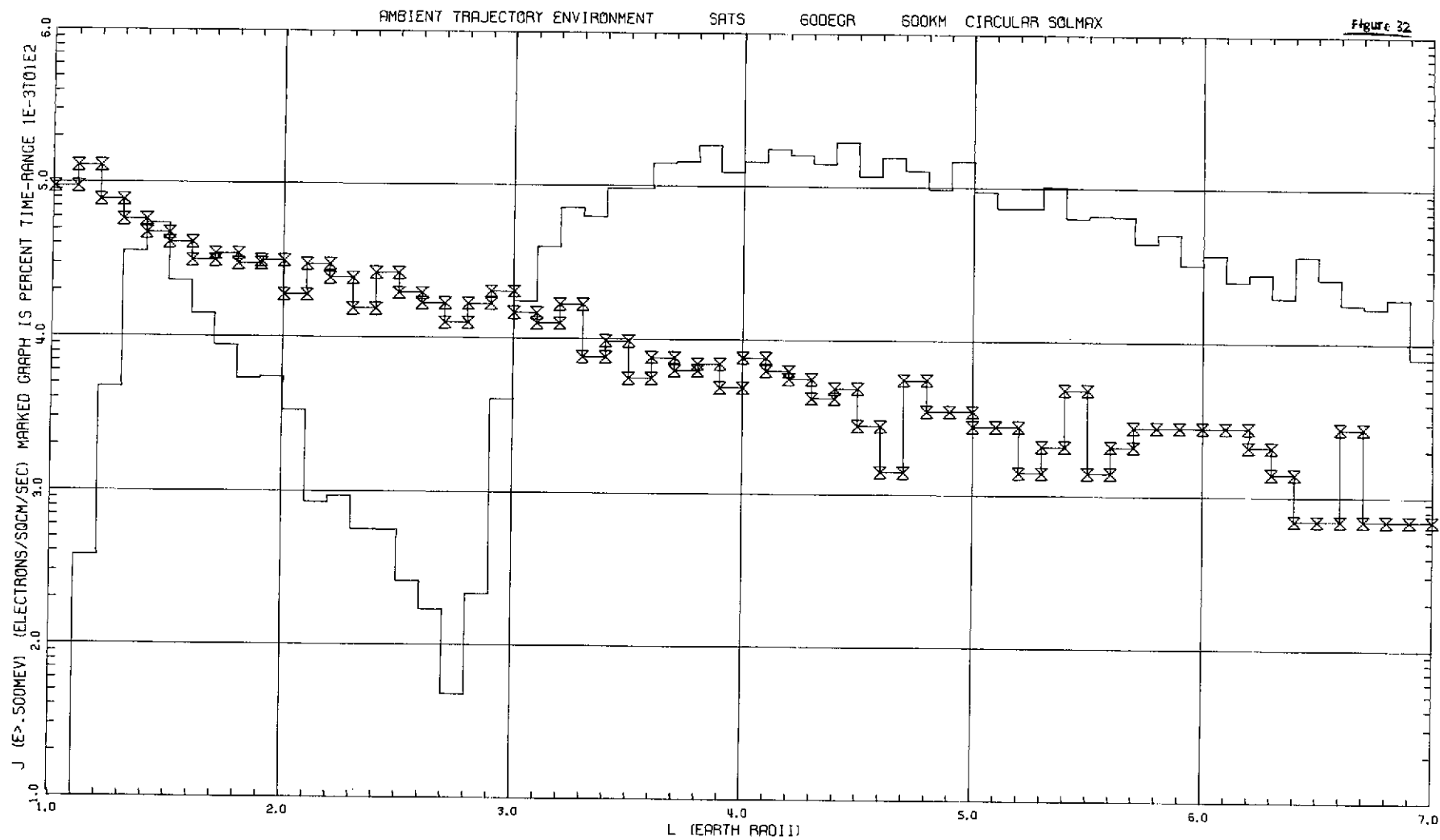
CIRCULAR SOLMAX

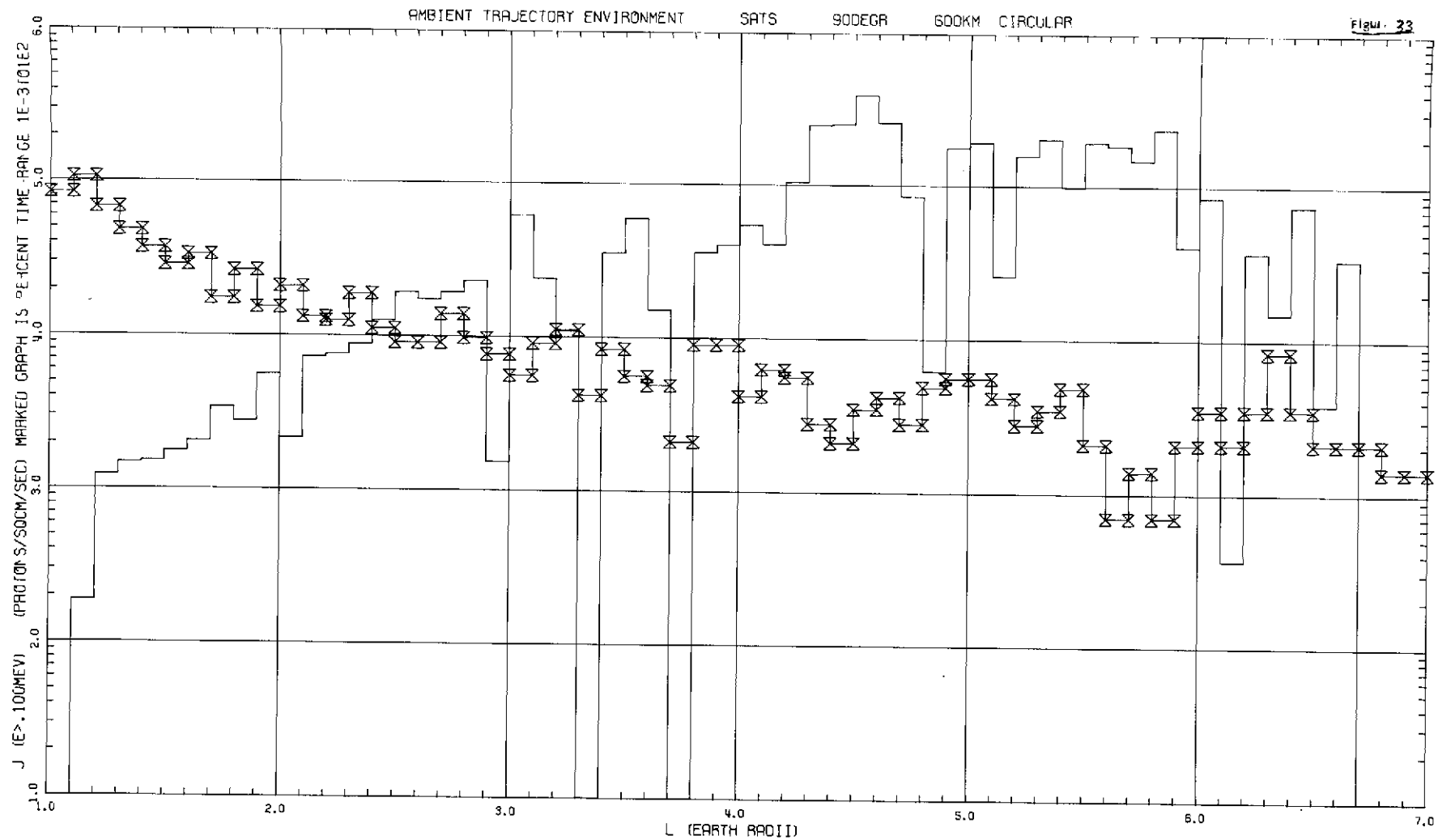
Figure 24

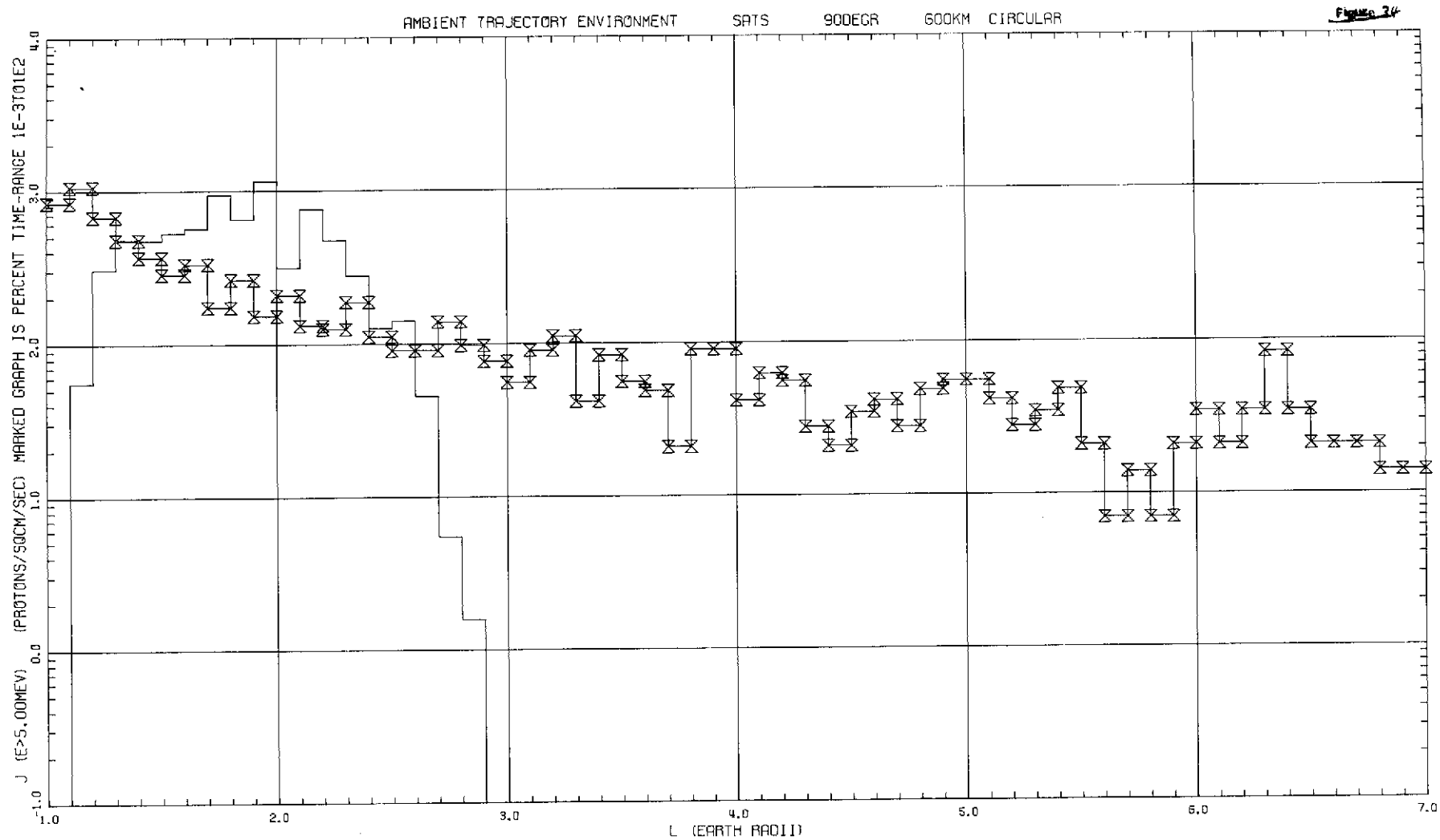


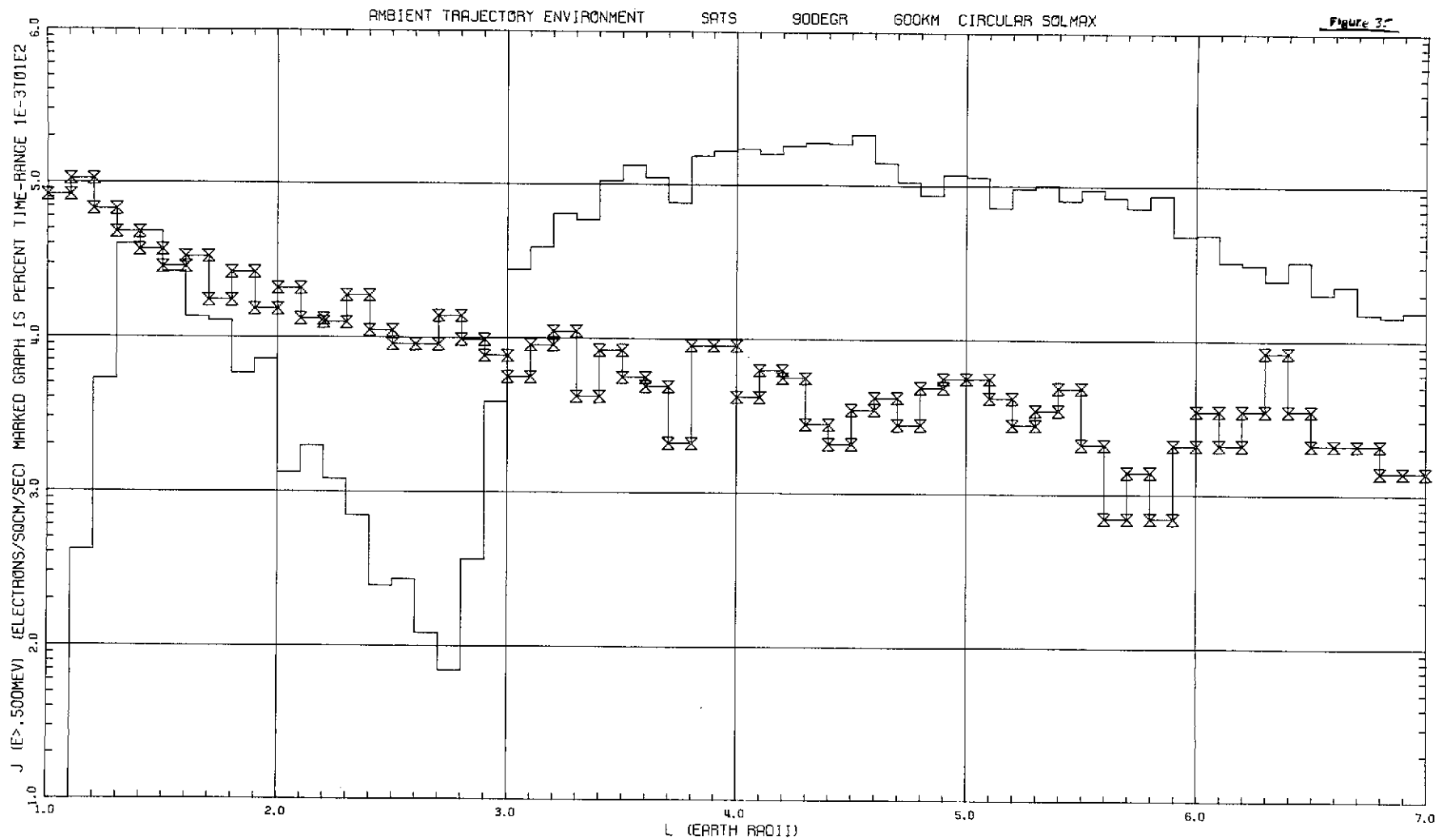


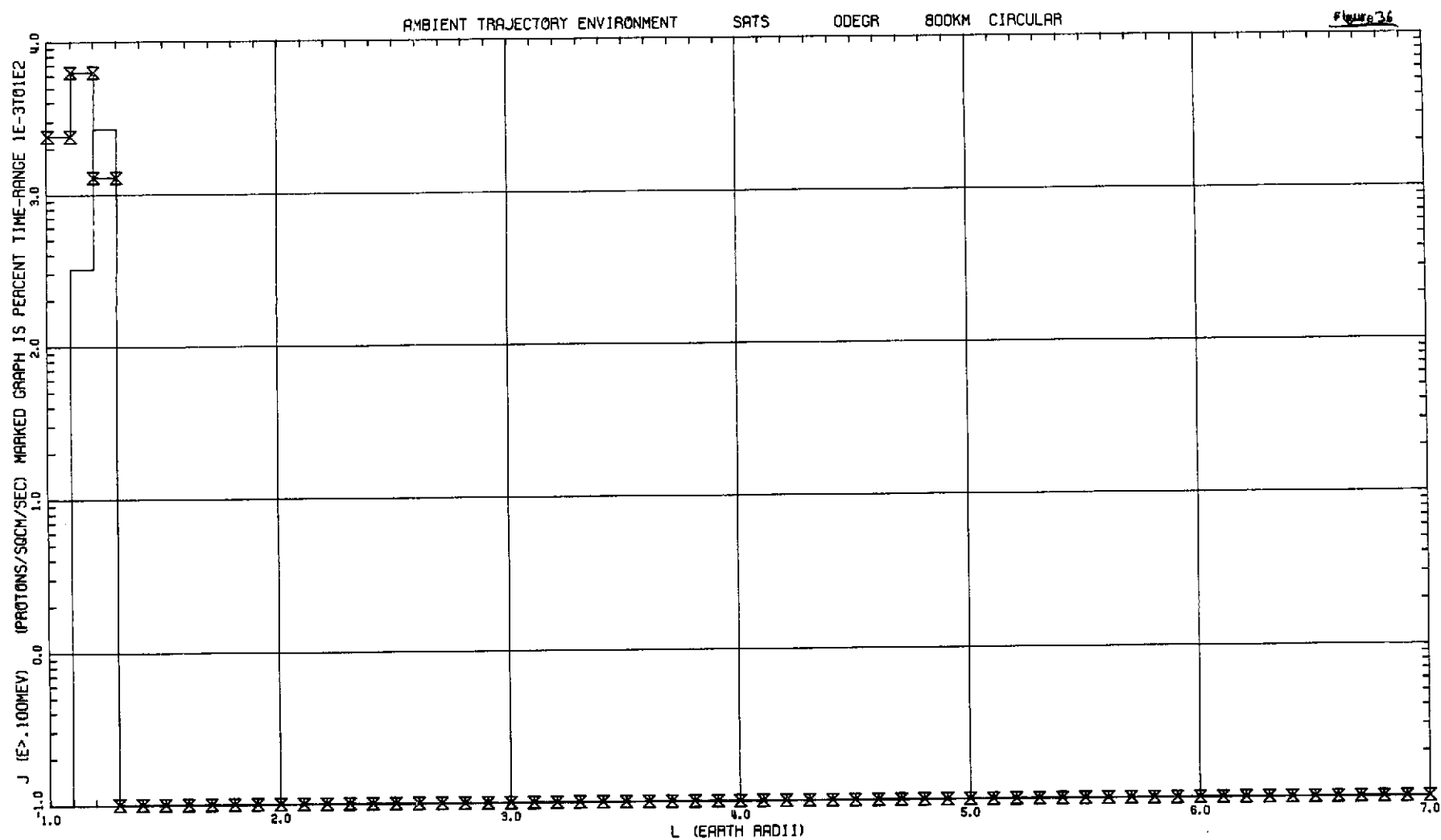


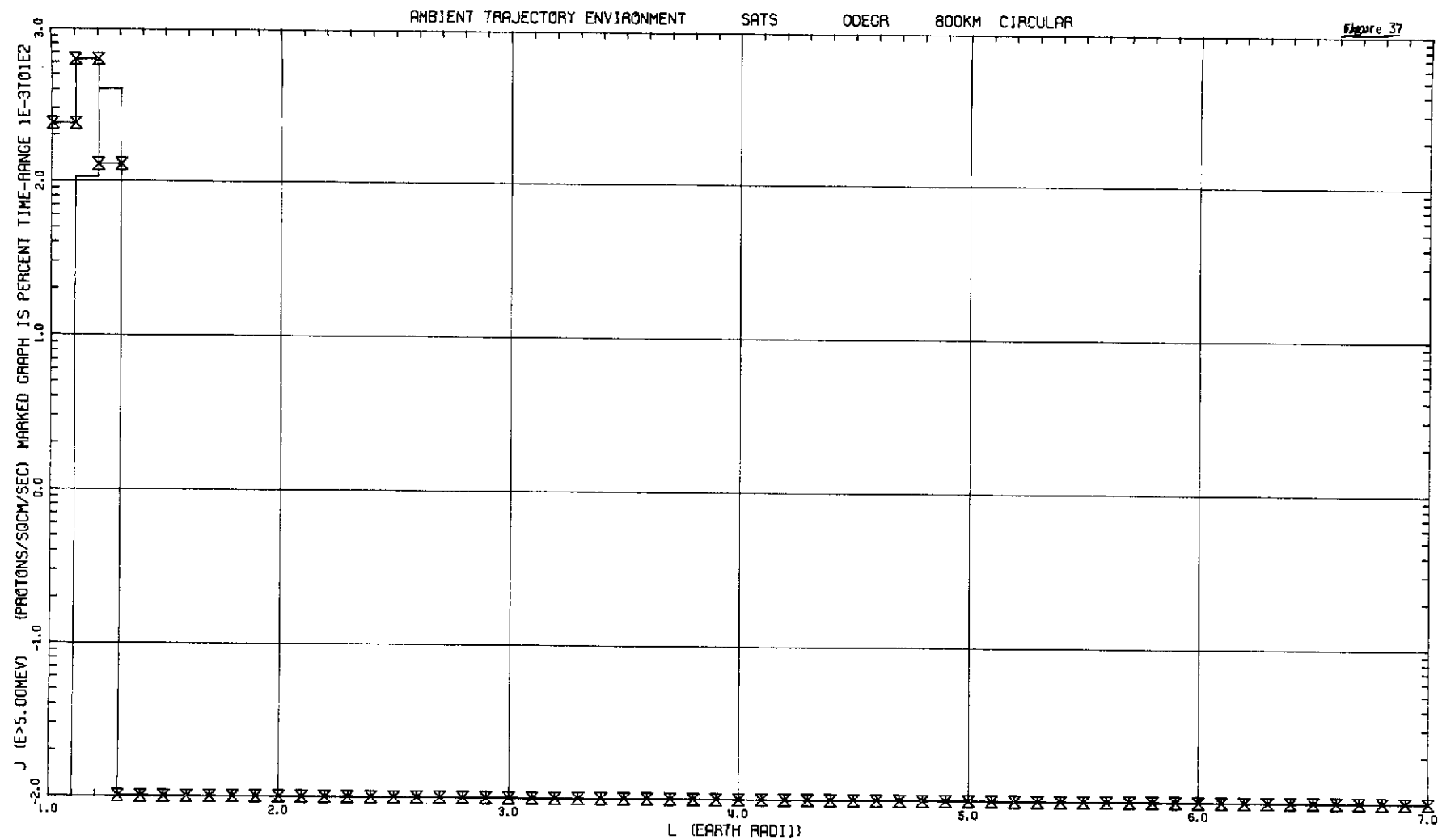


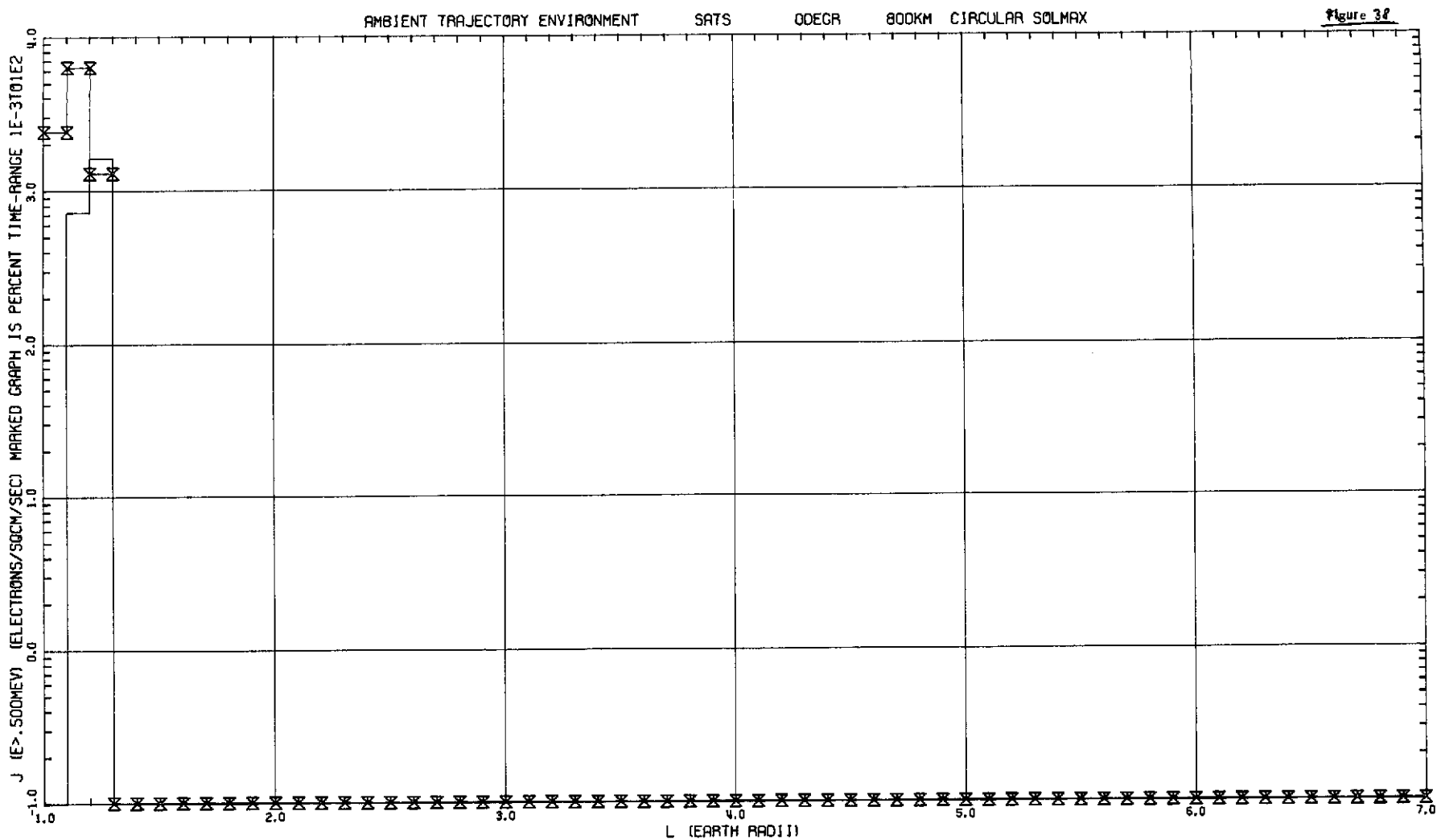


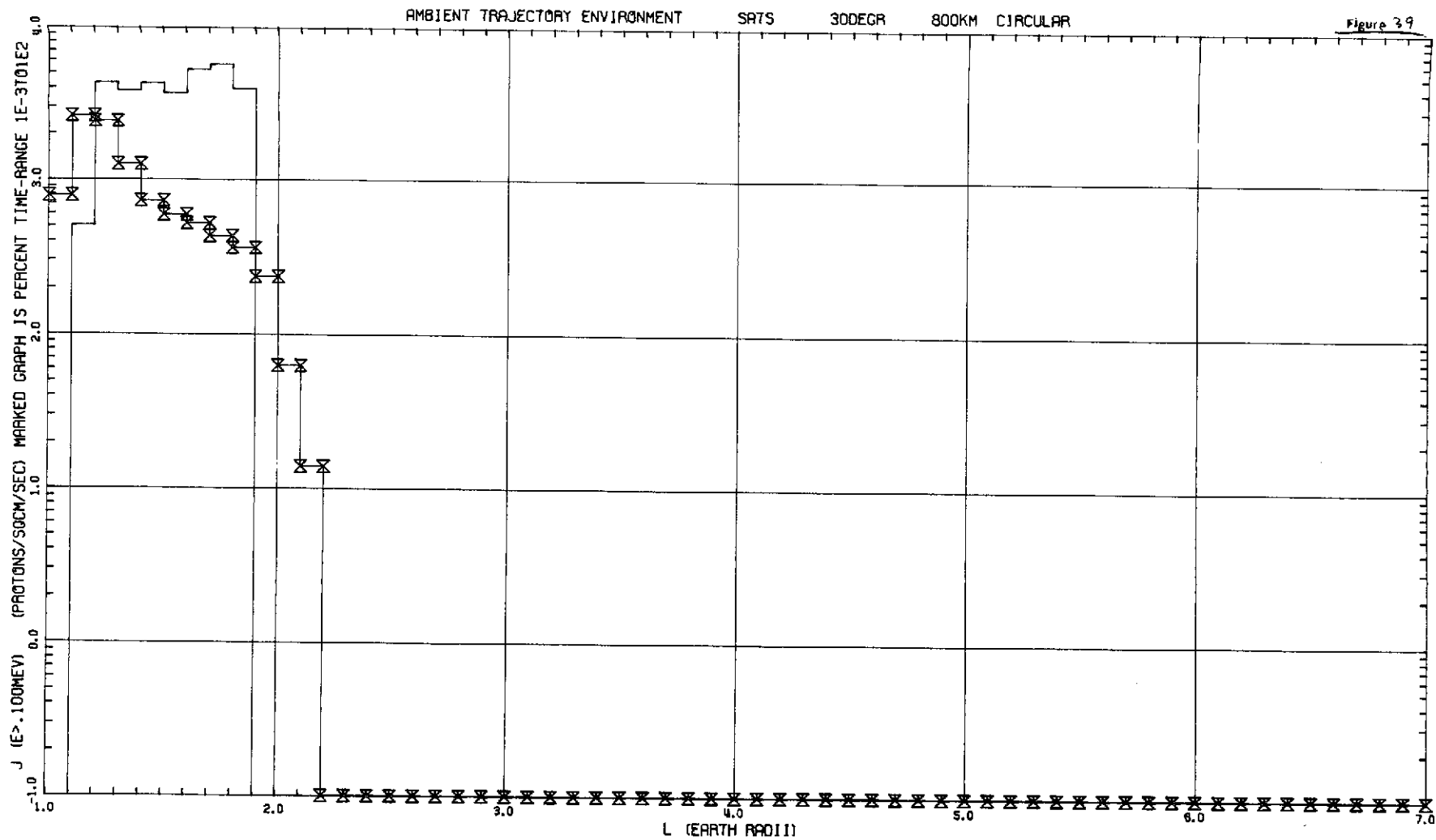






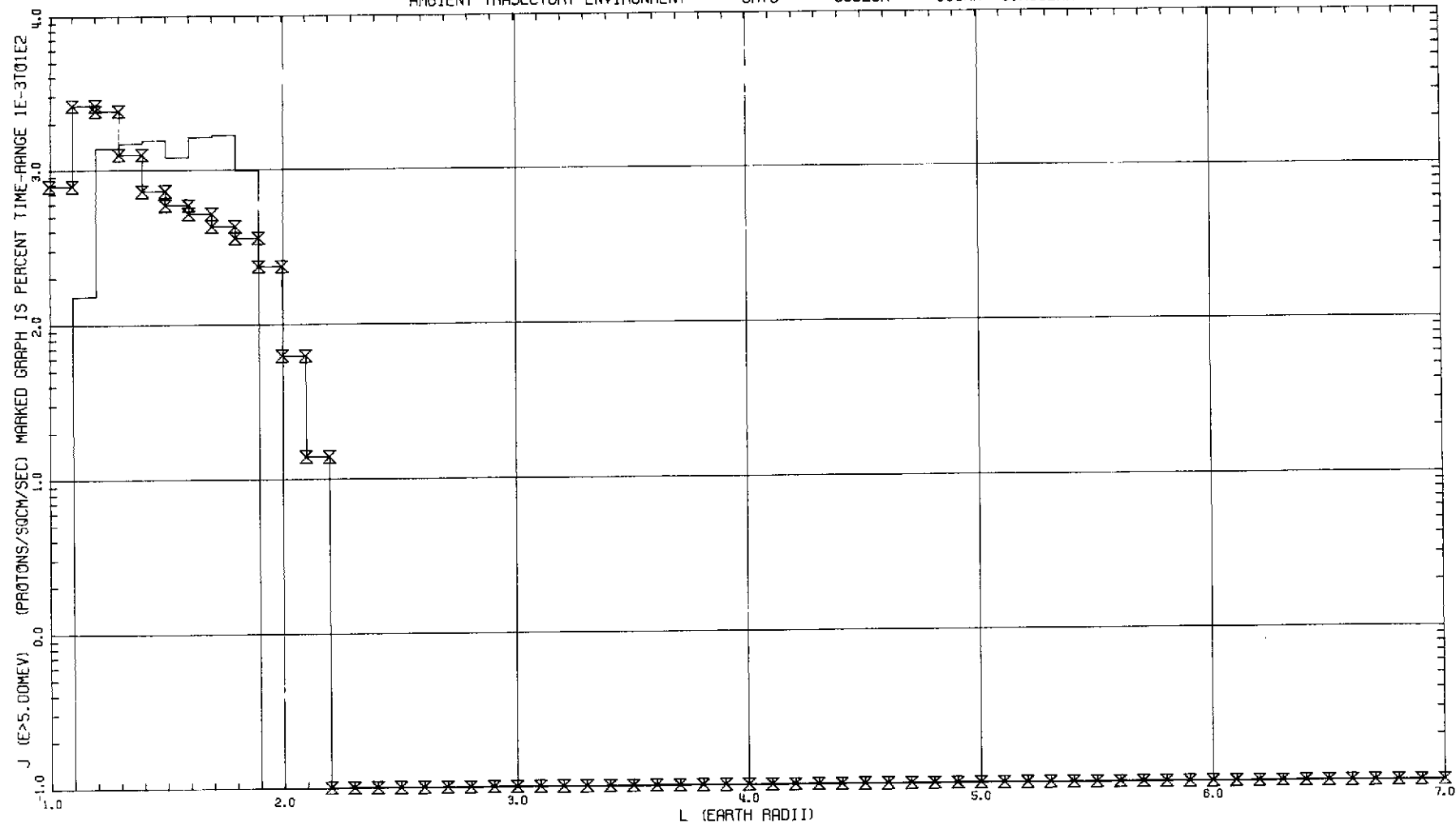


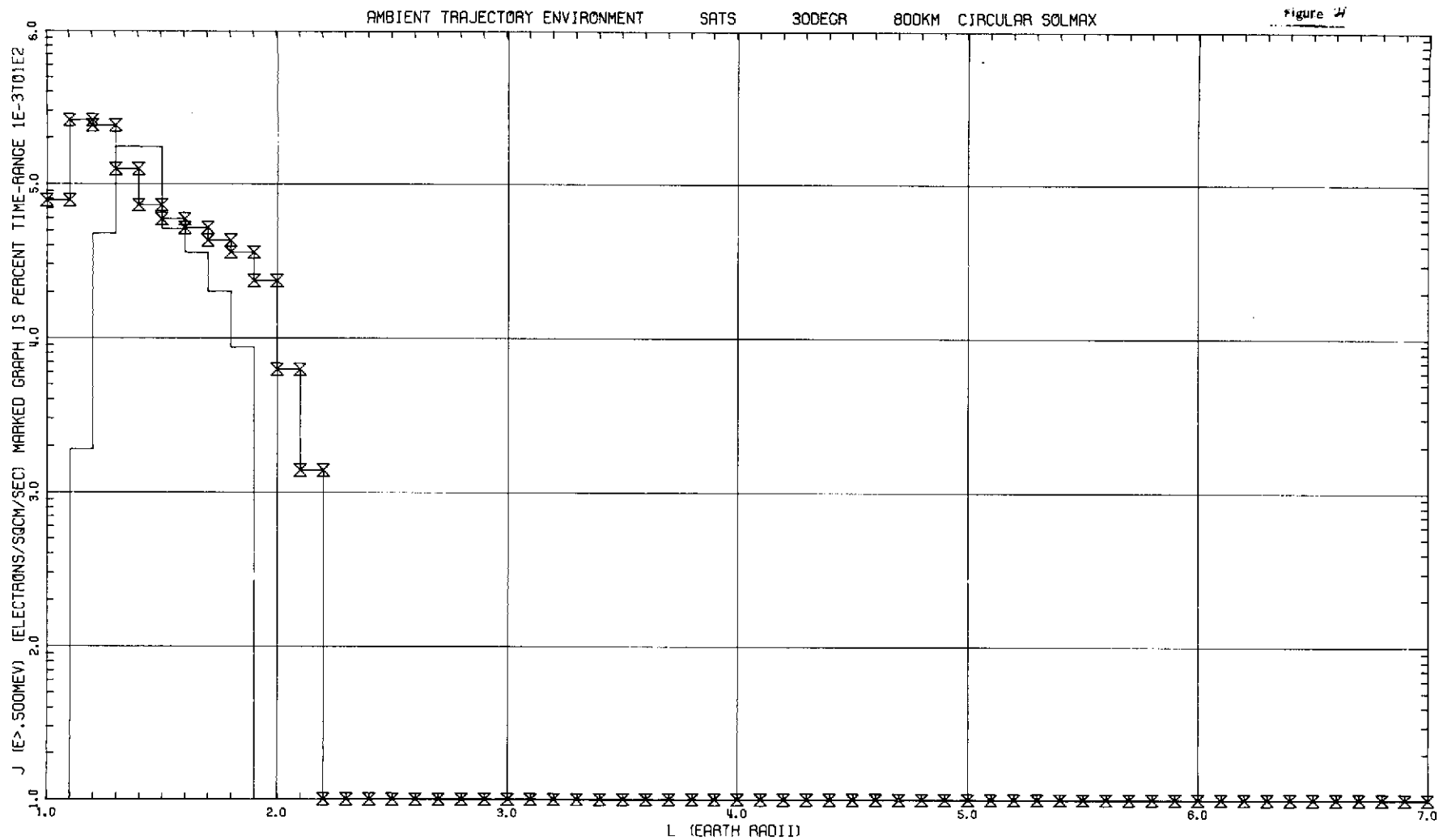


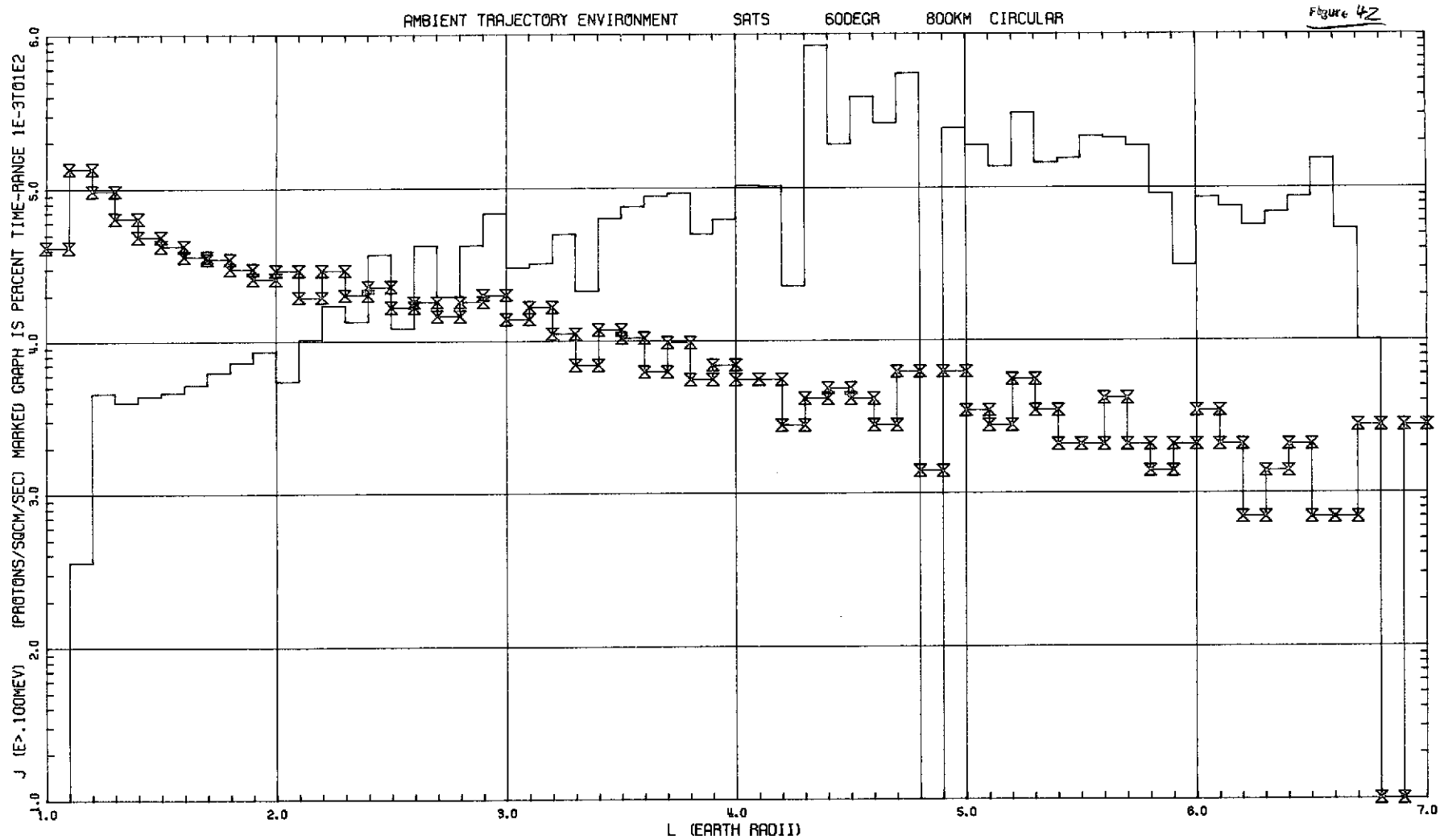


AMBIENT TRAJECTORY ENVIRONMENT SATS 30DEGR 800KM CIRCULAR

Figure 442

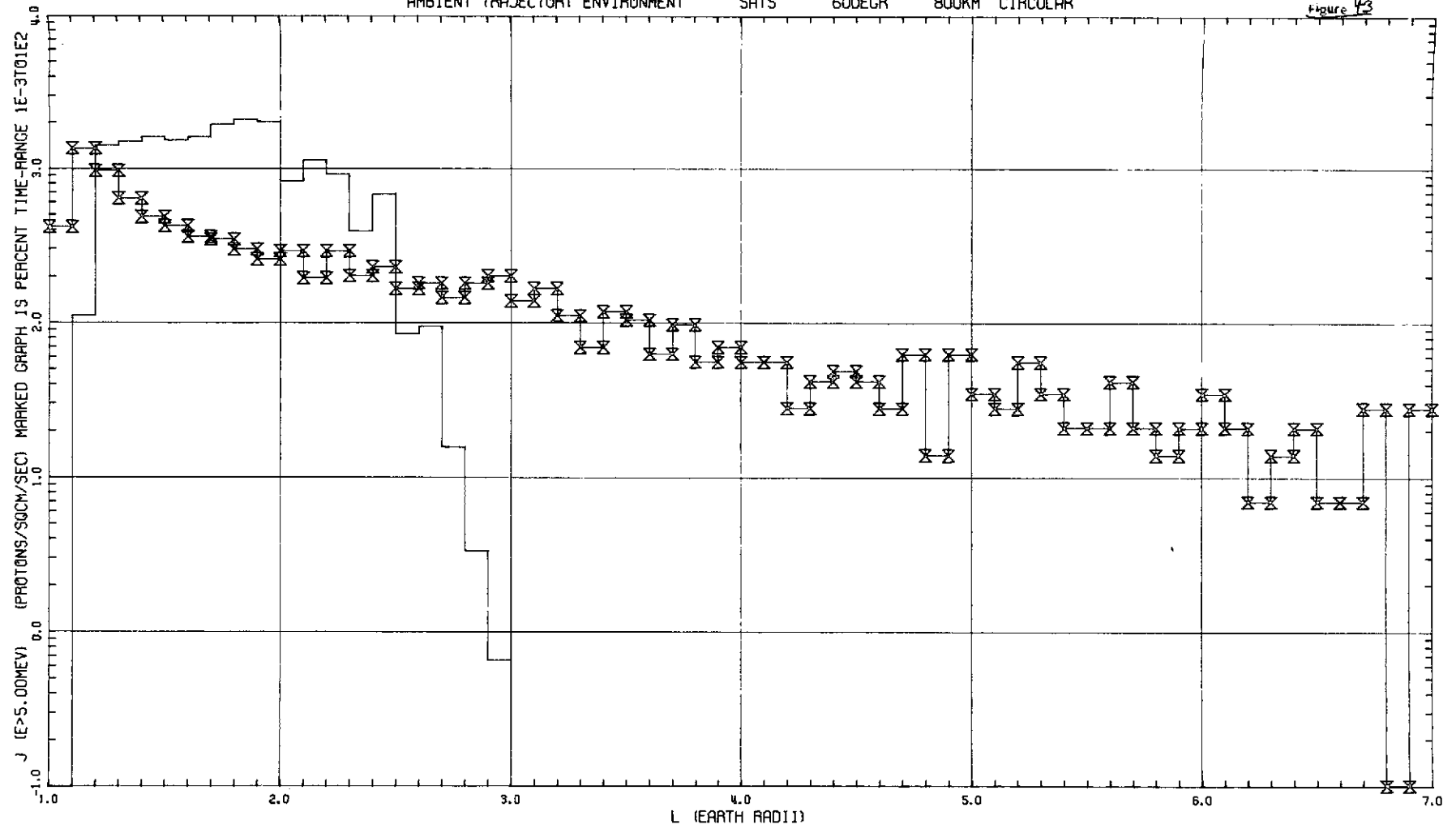


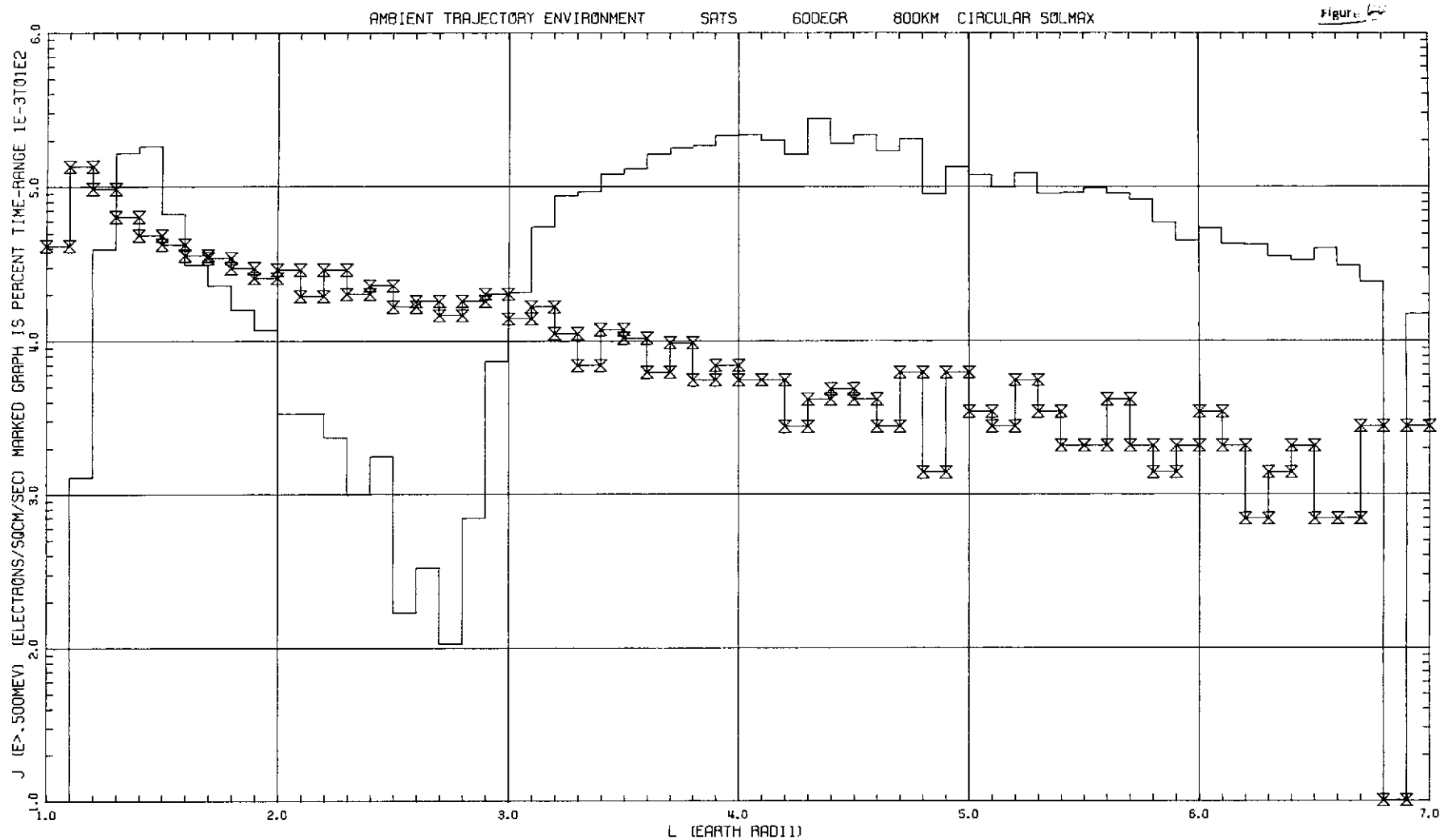


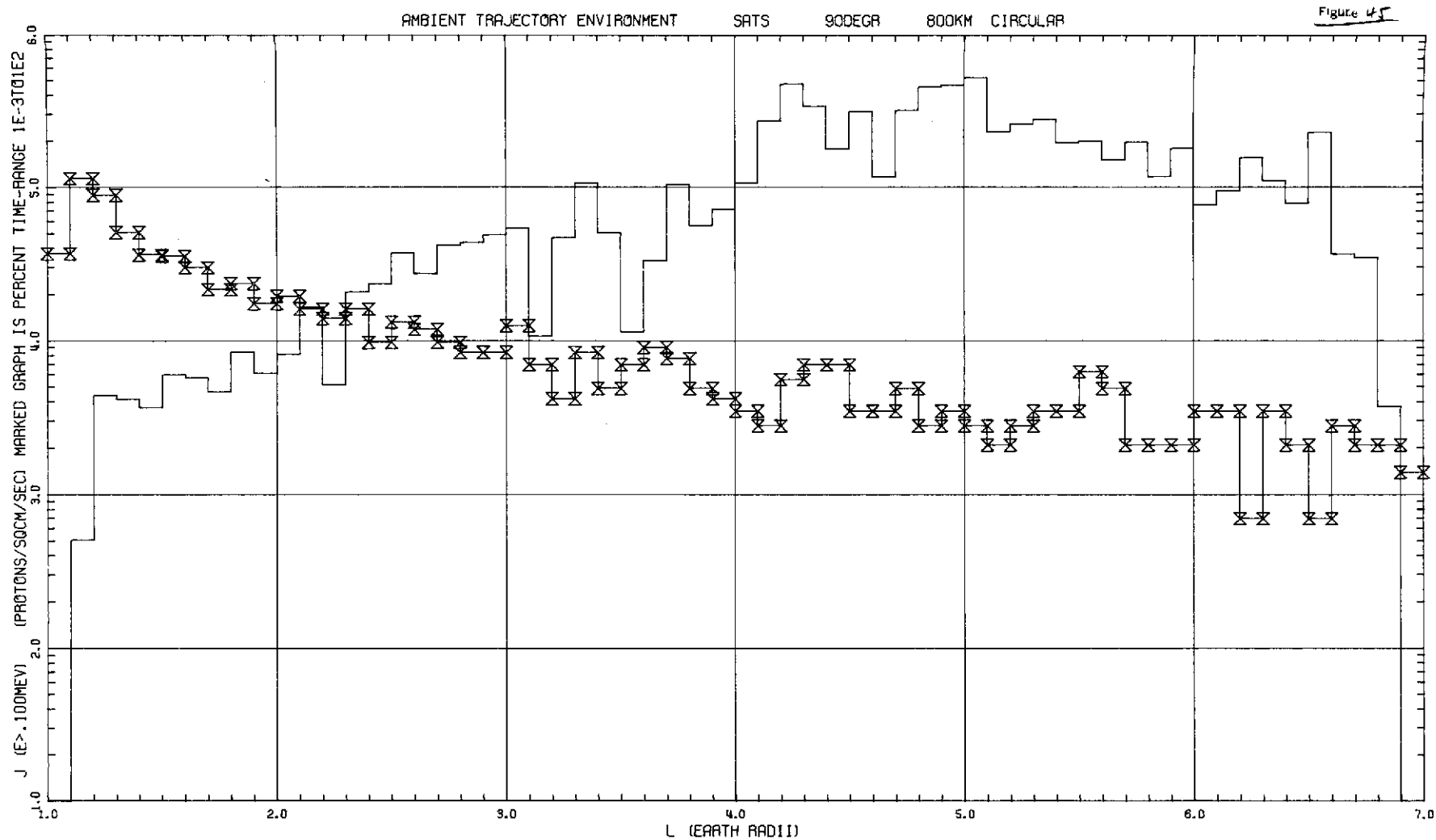


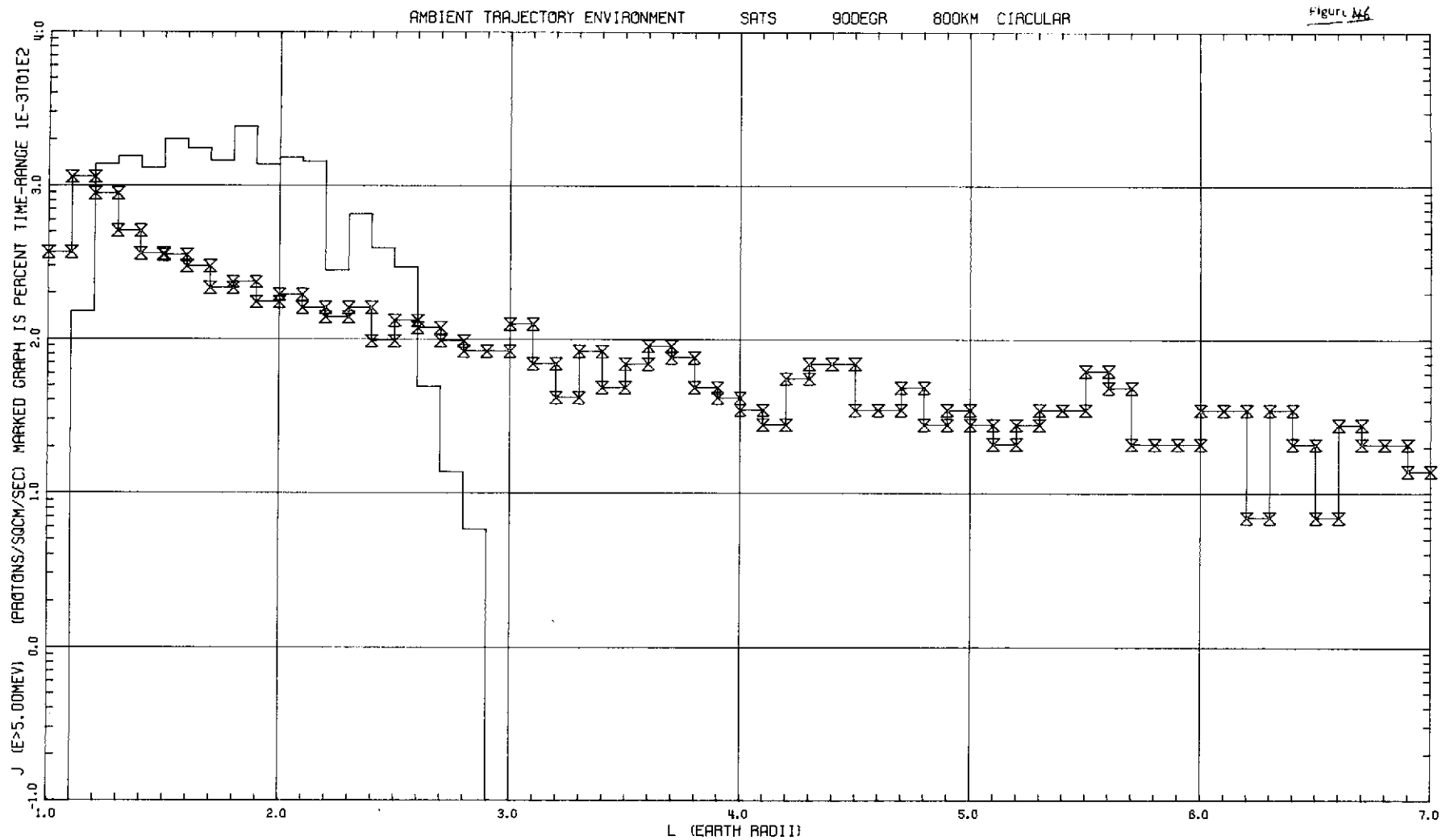
AMBIENT TRAJECTORY ENVIRONMENT SATS 60DEGR 800KM CIRCULAR

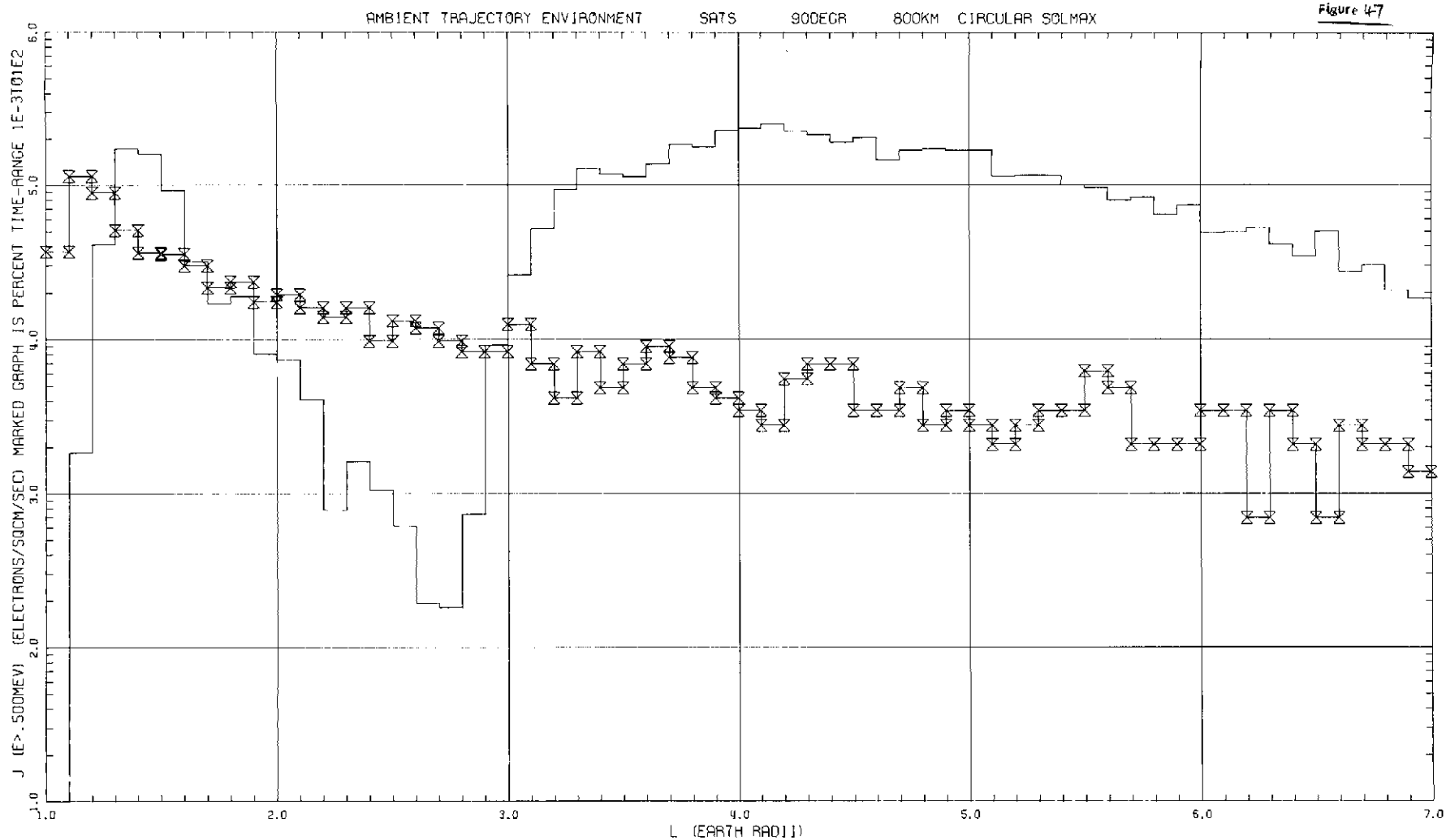
Figure 43

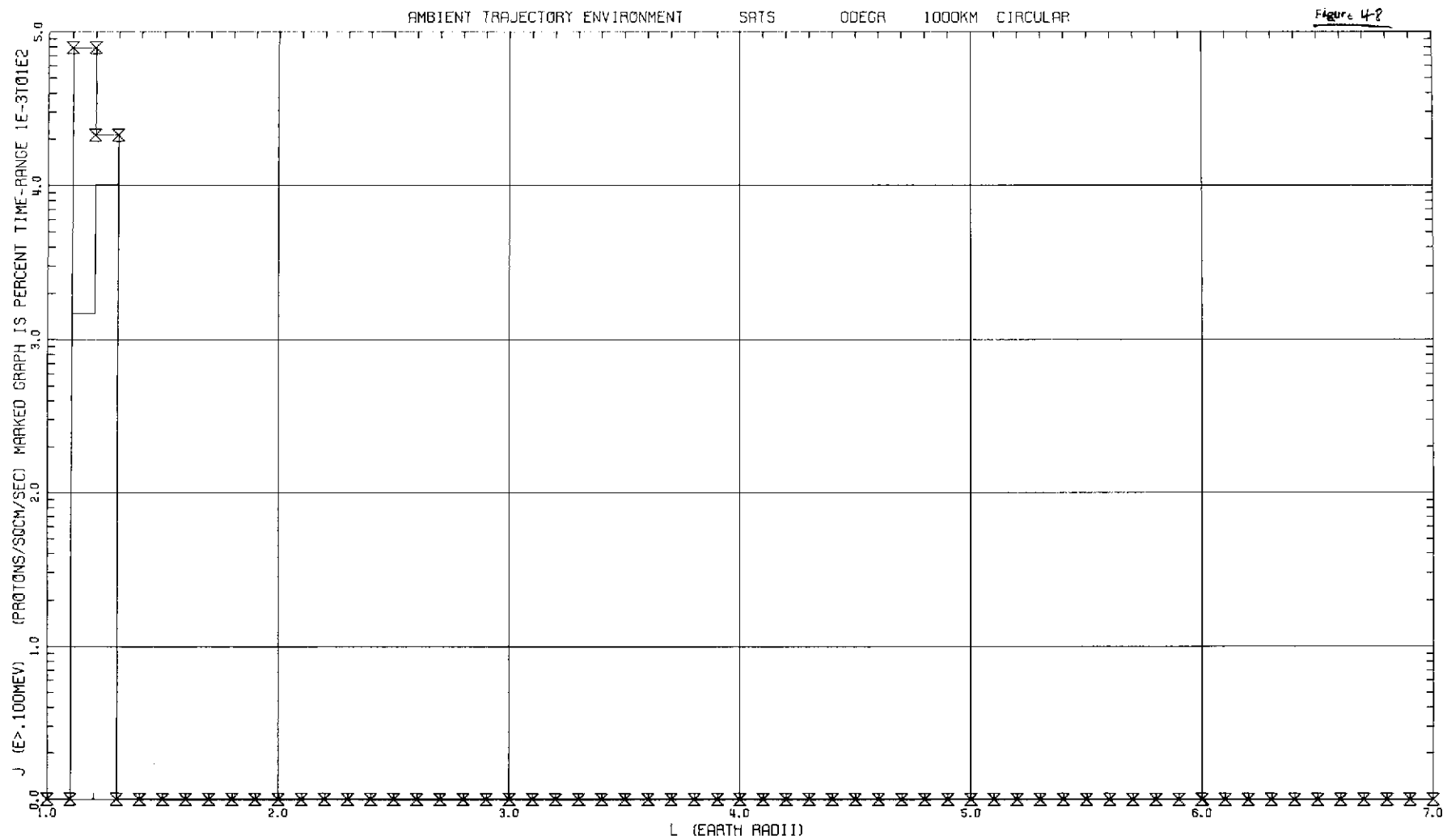


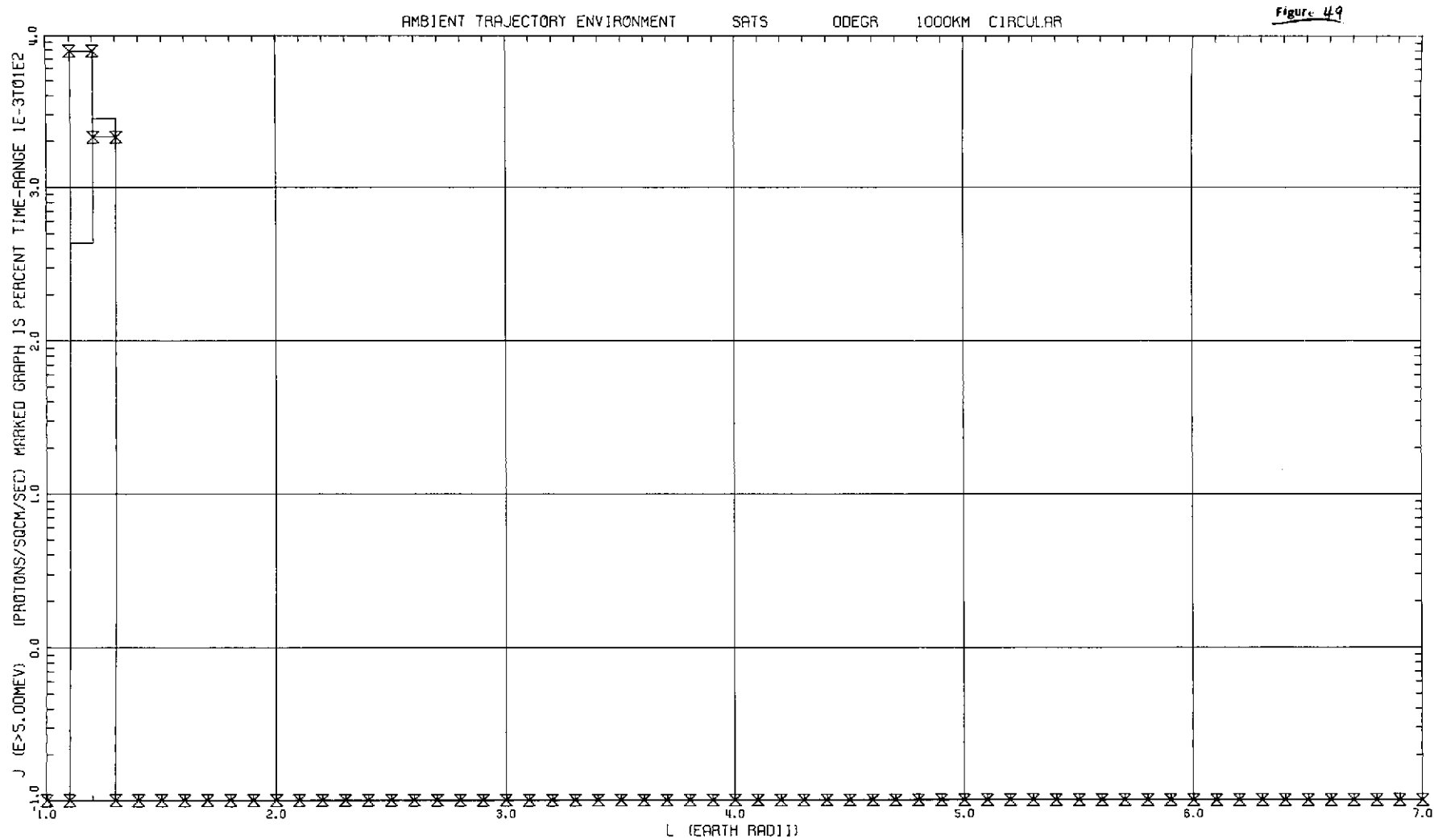


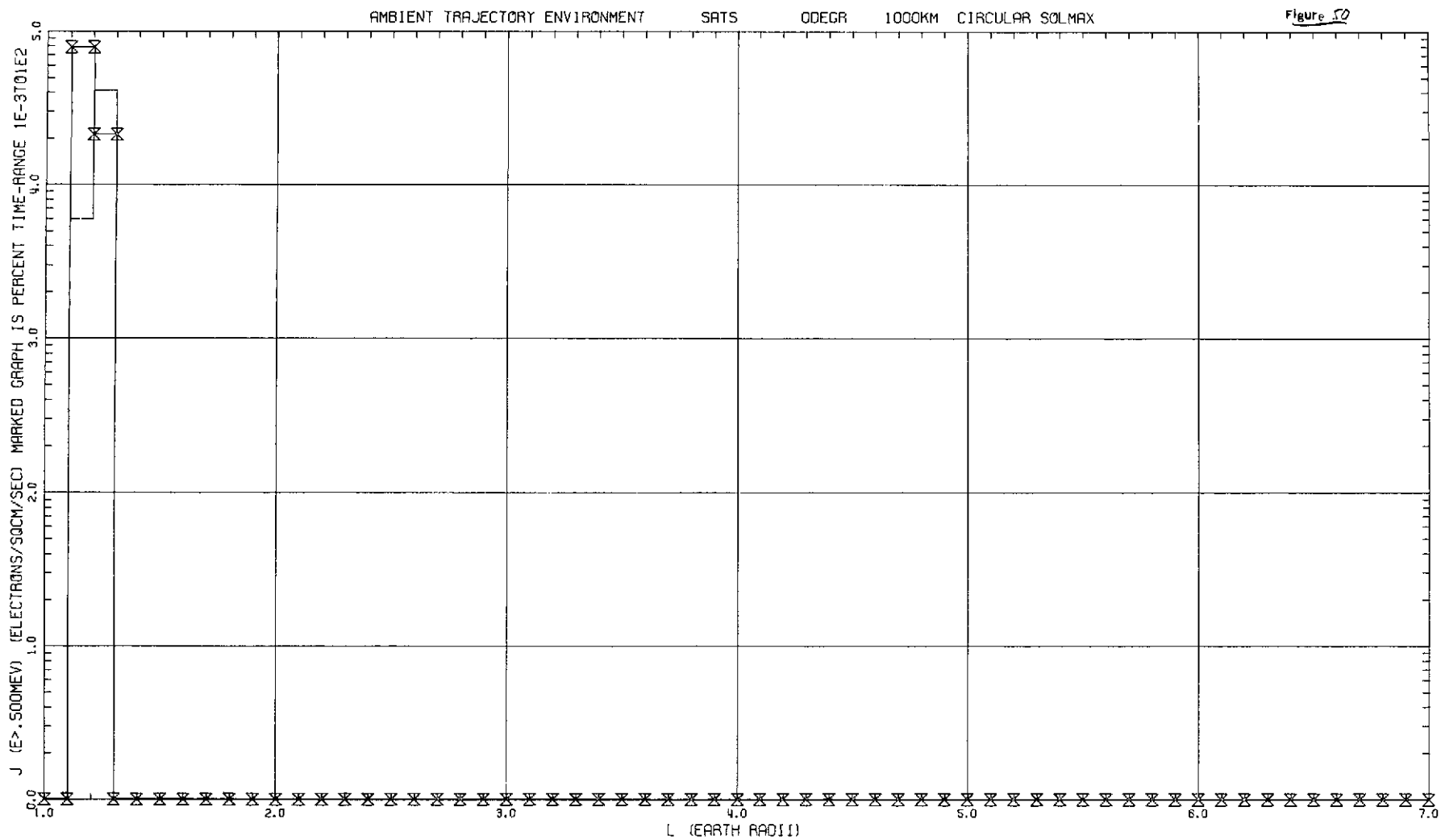












AMBIENT TRAJECTORY ENVIRONMENT

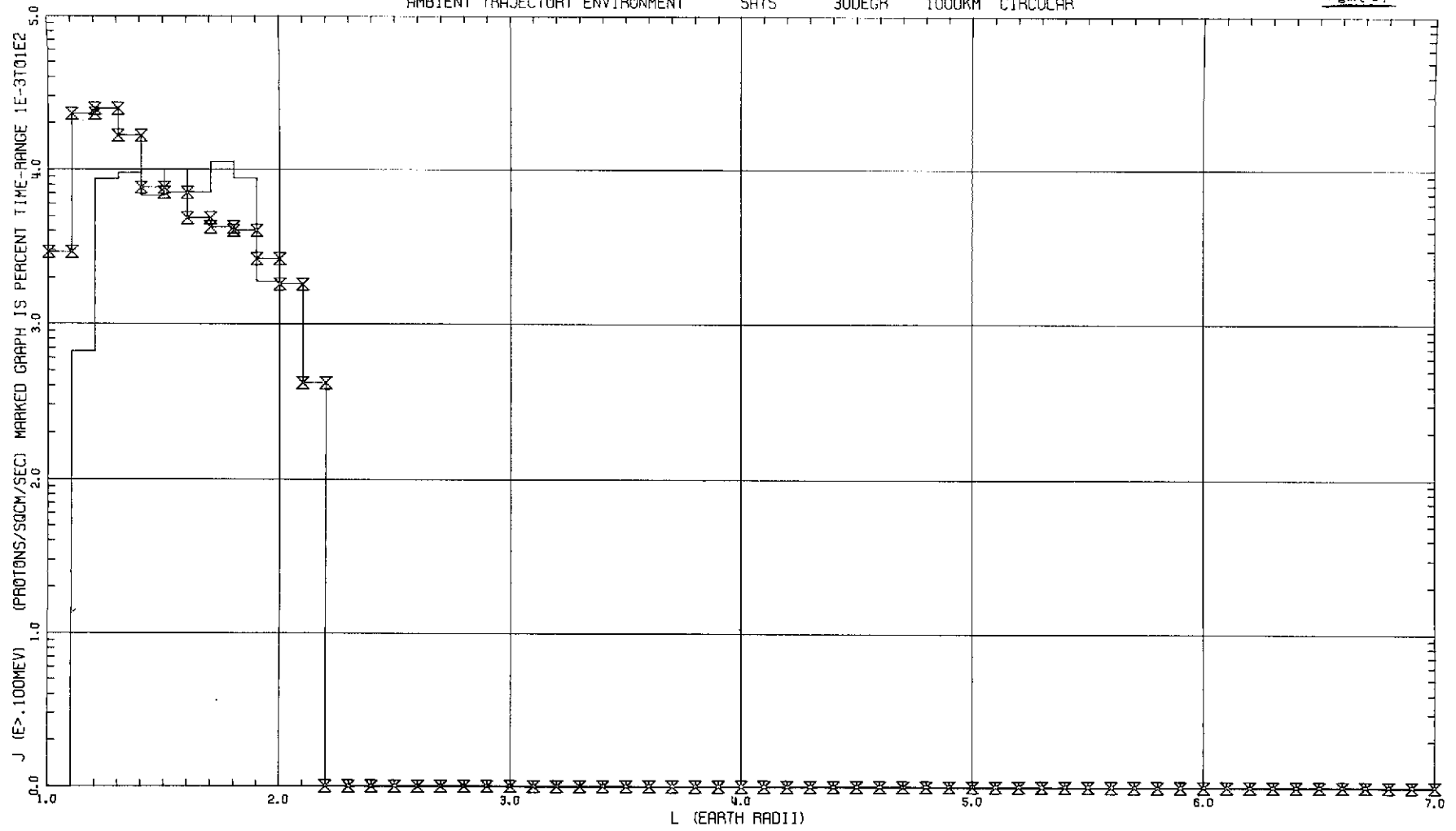
SATS

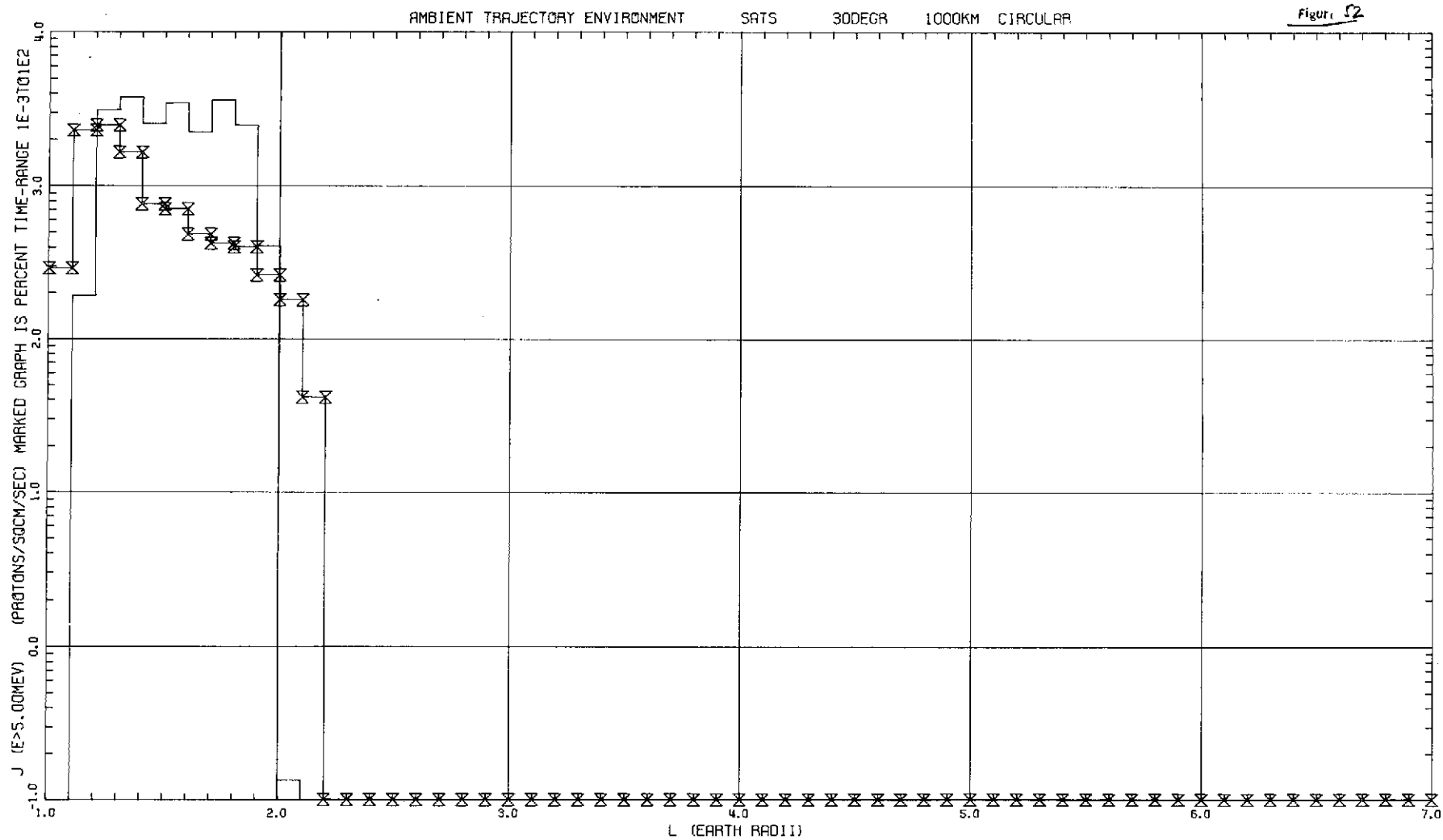
30DEGR

1000KM

CIRCULAR

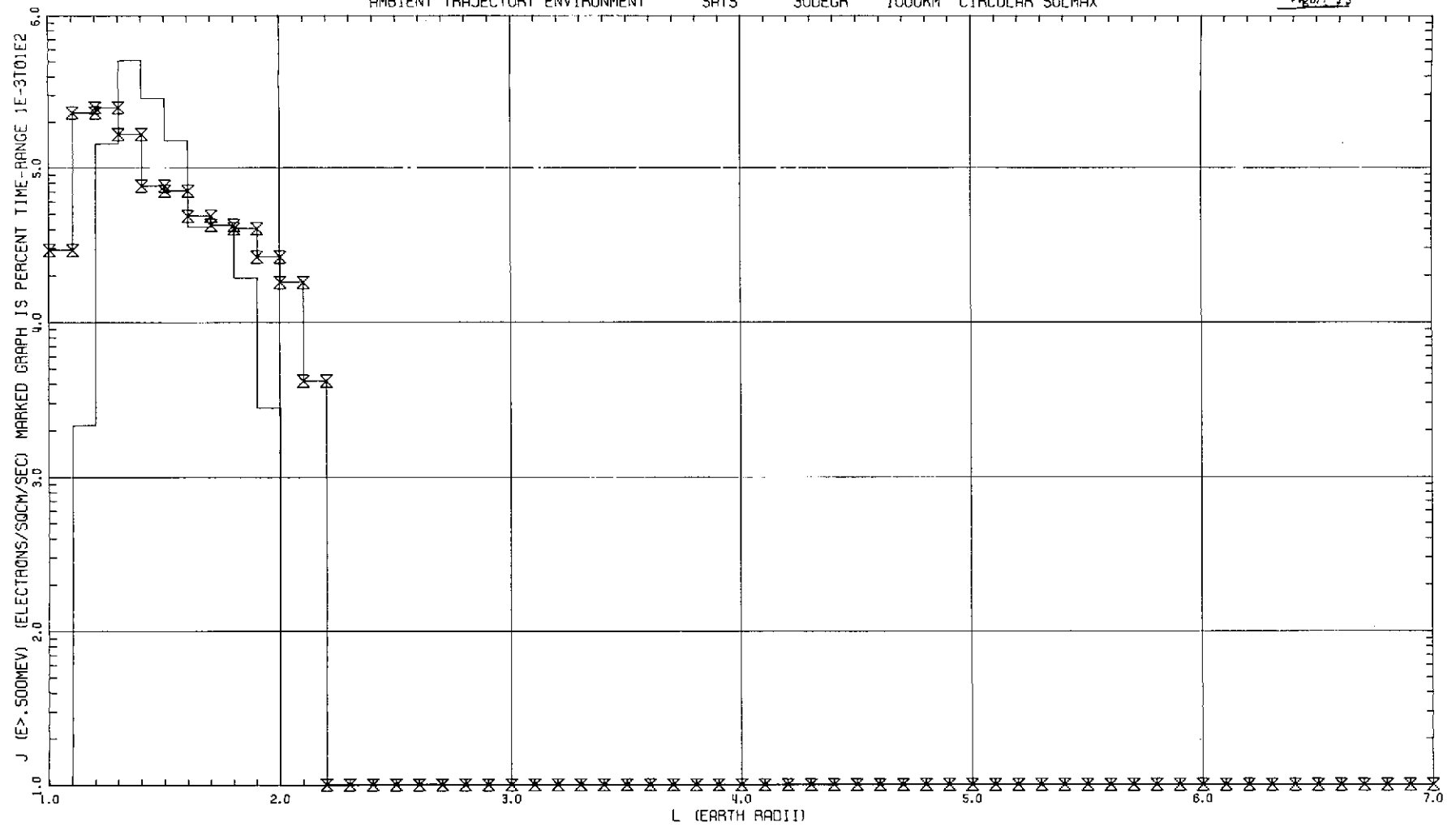
Figure 47

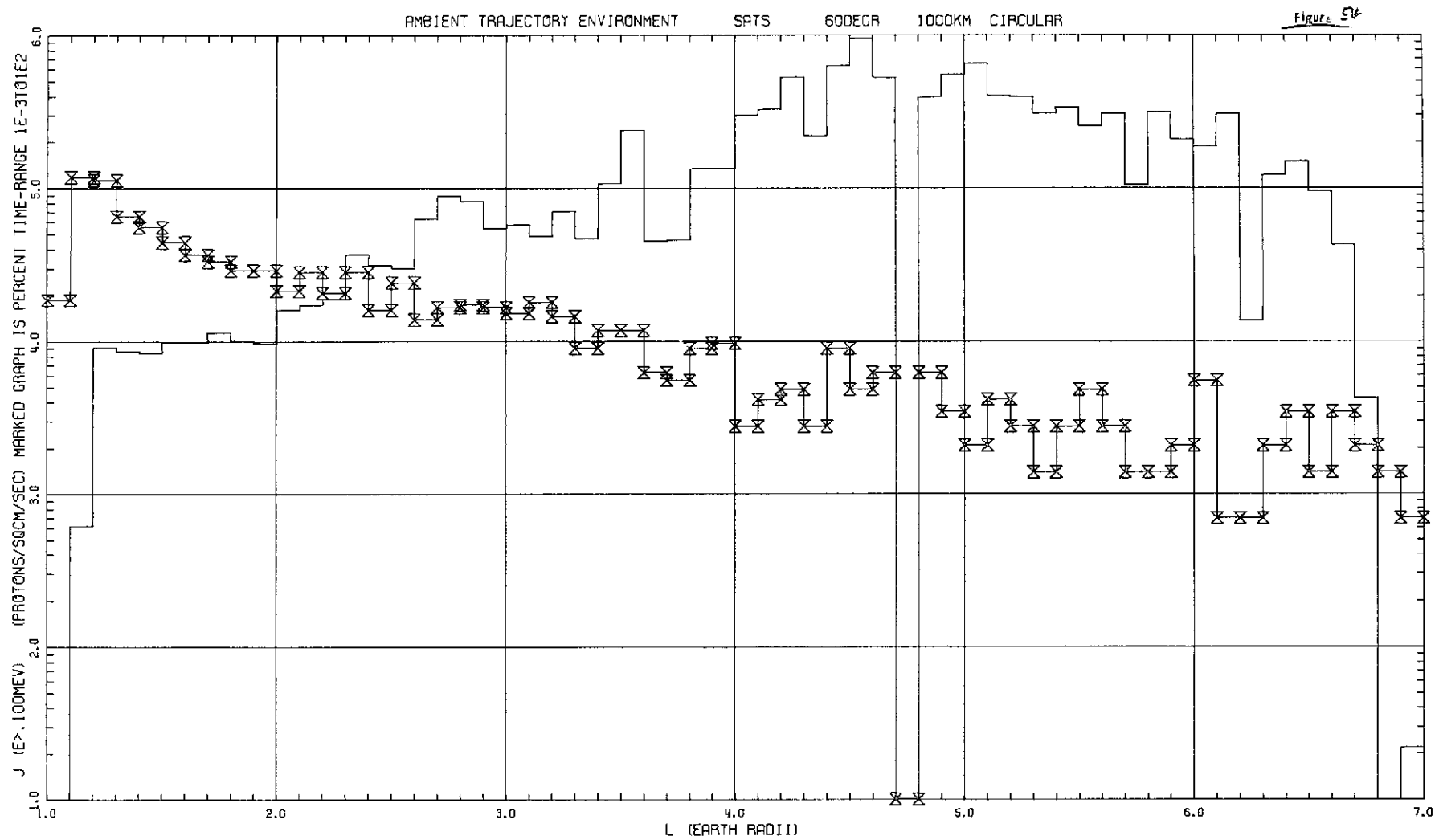


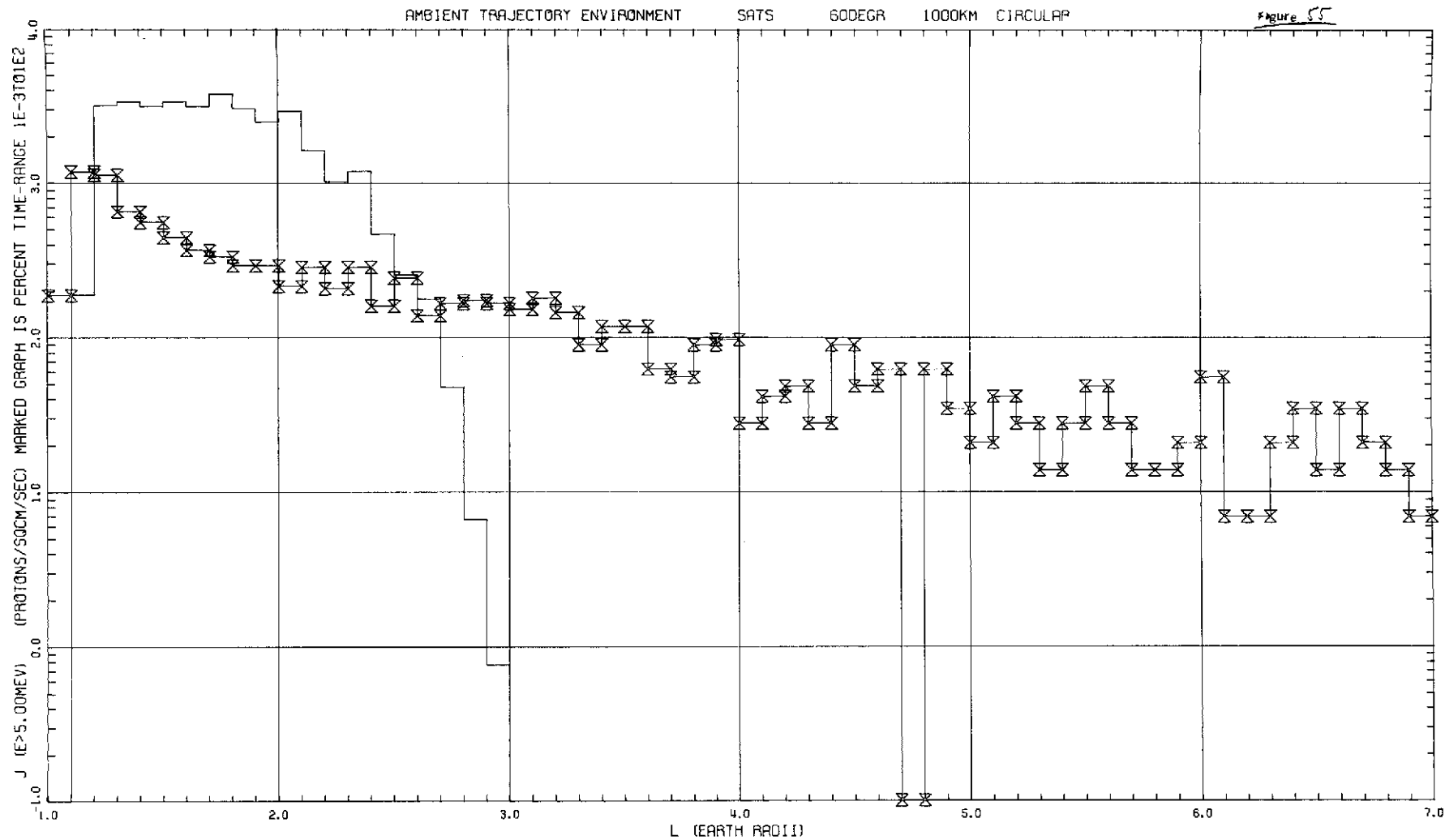


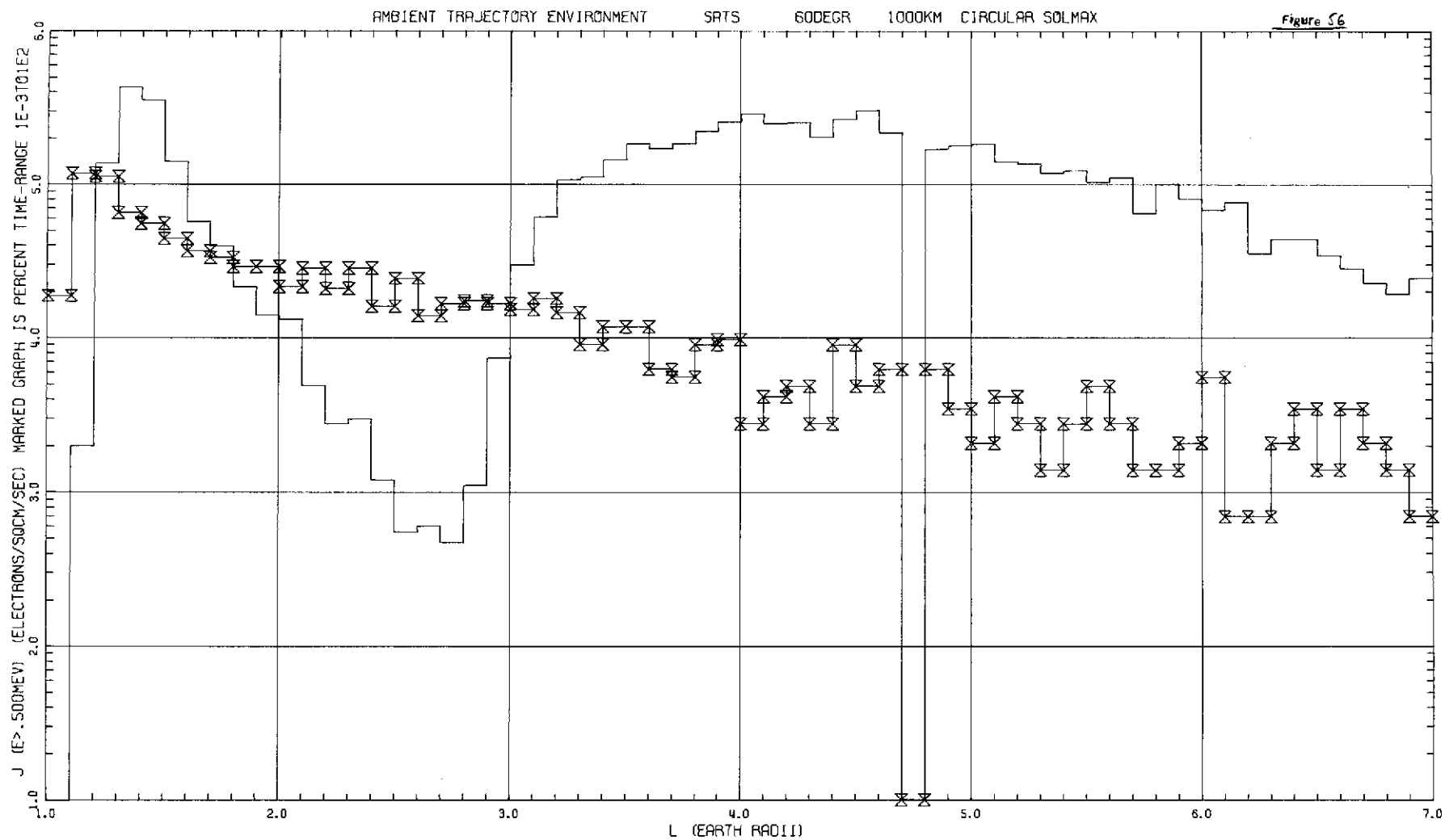
AMBIENT TRAJECTORY ENVIRONMENT SPTS 30DEGR 1000KM CIRCULAR SOLMAX

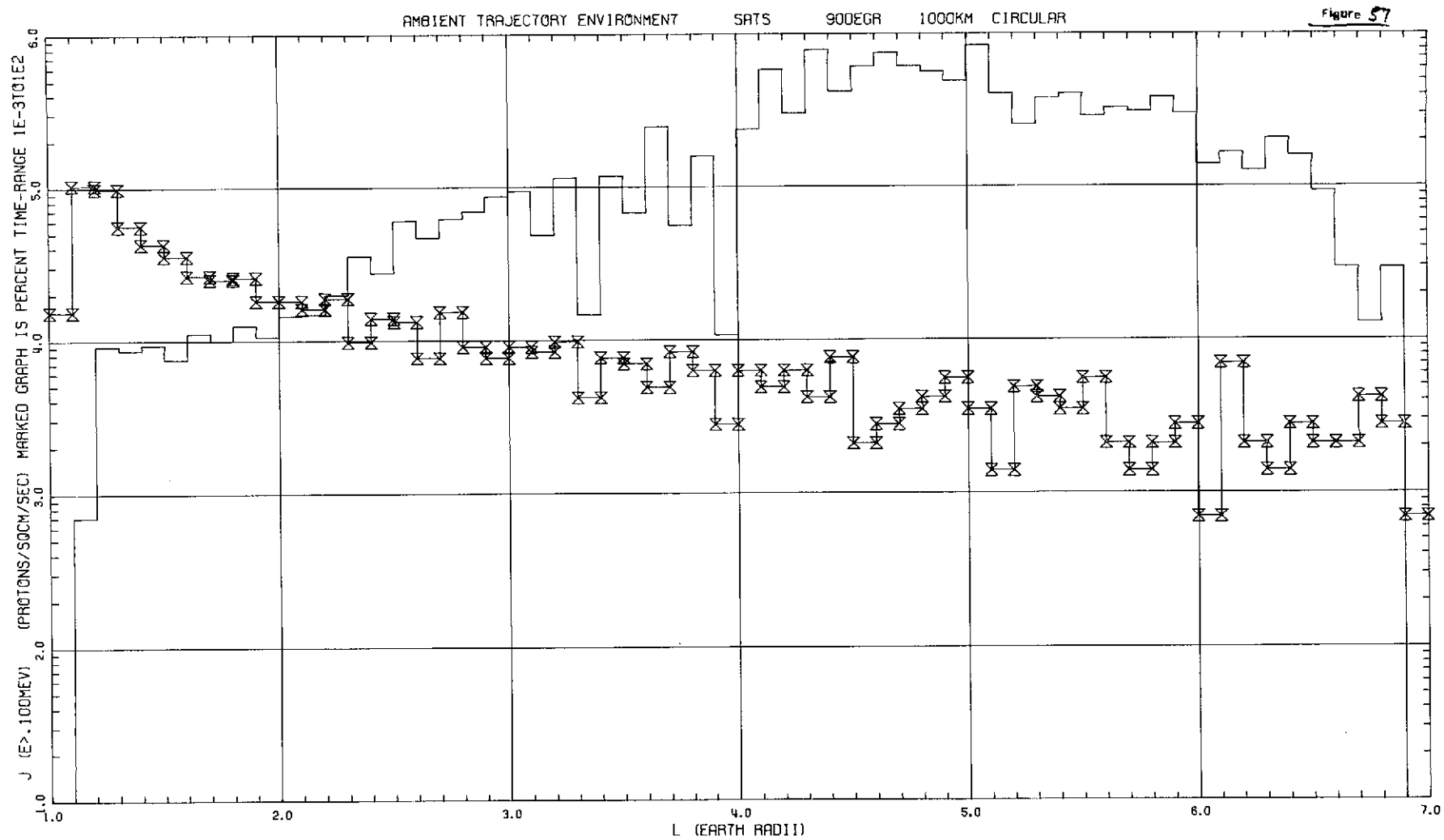
Fig. 13

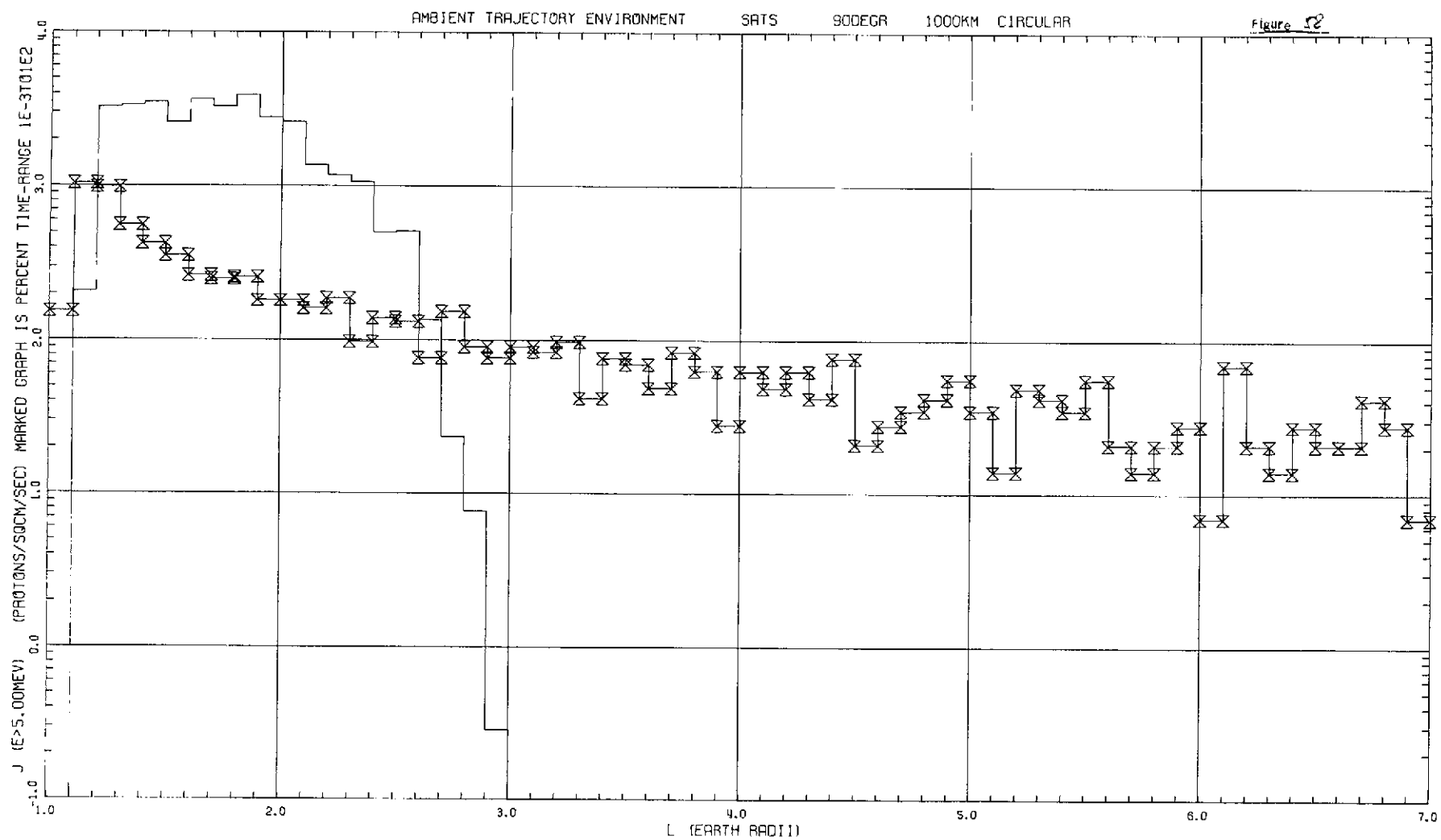


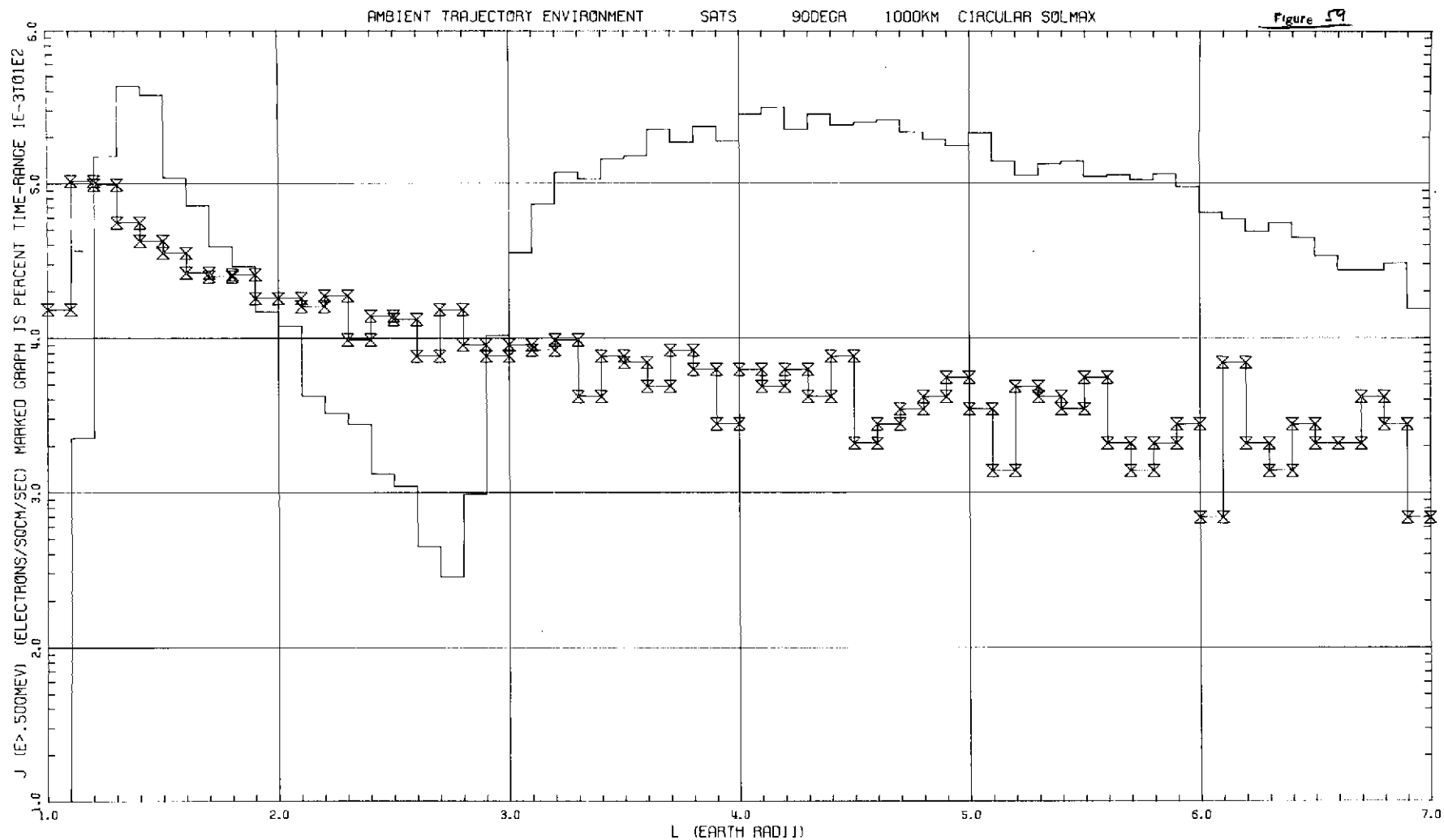












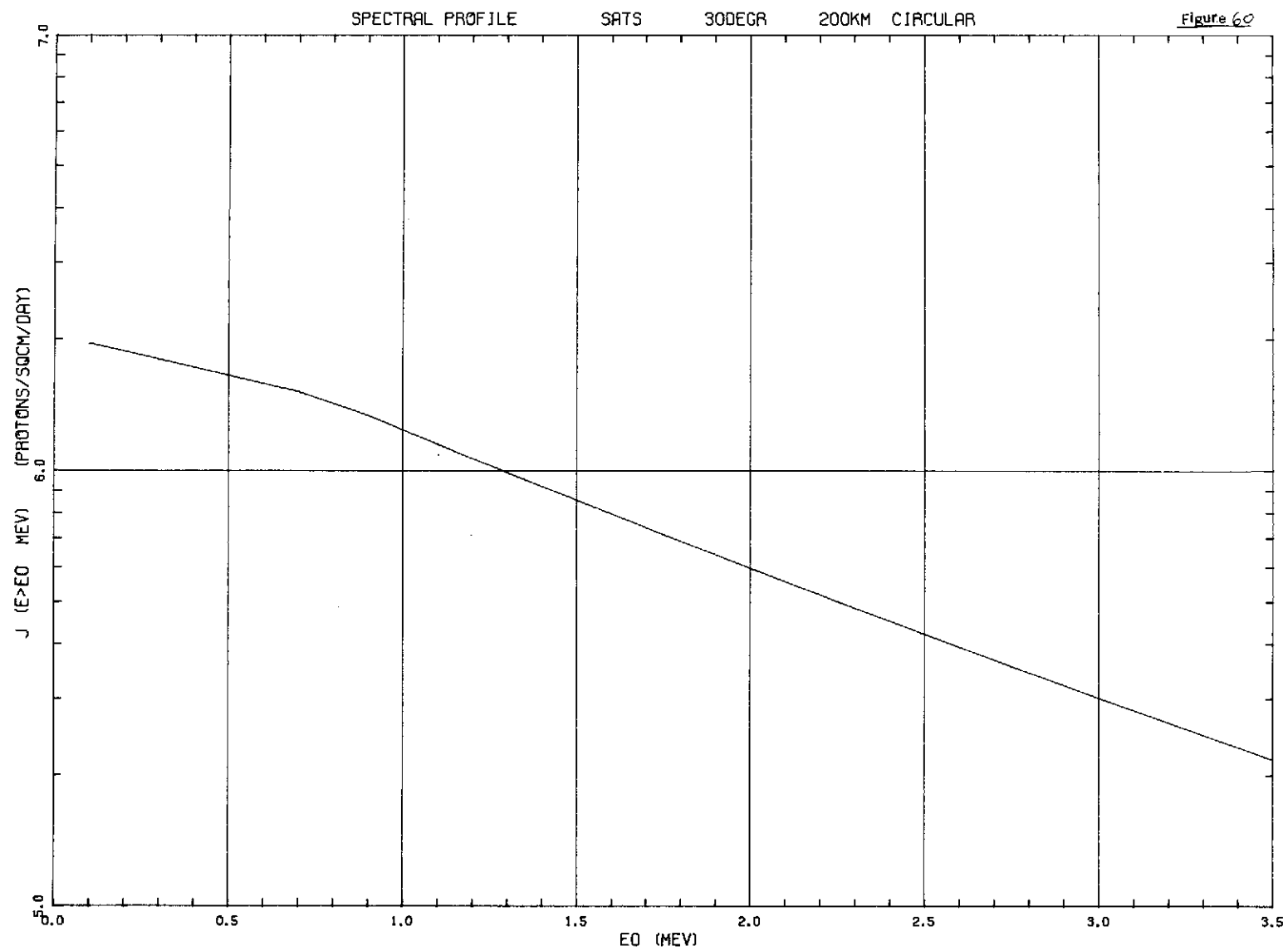
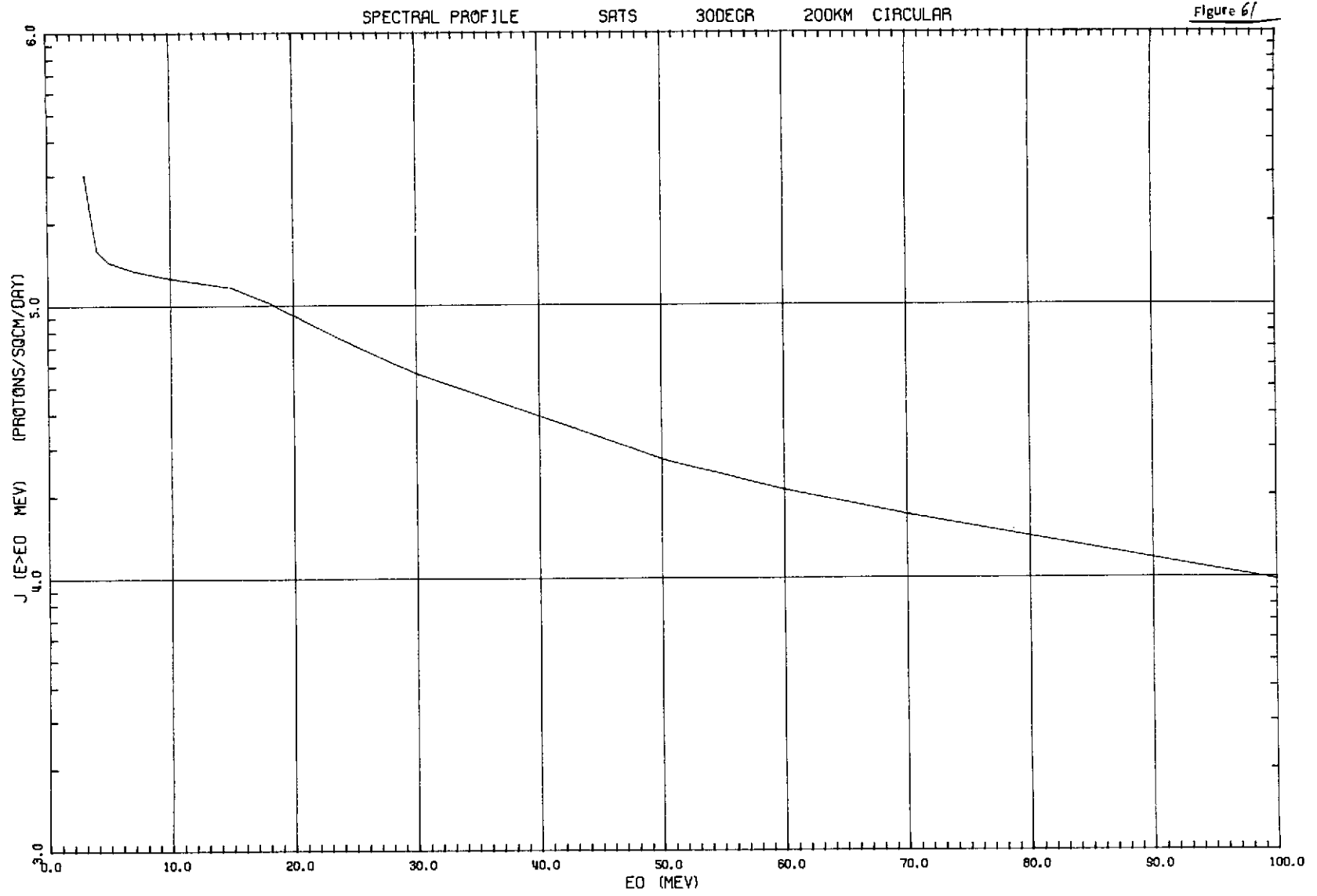
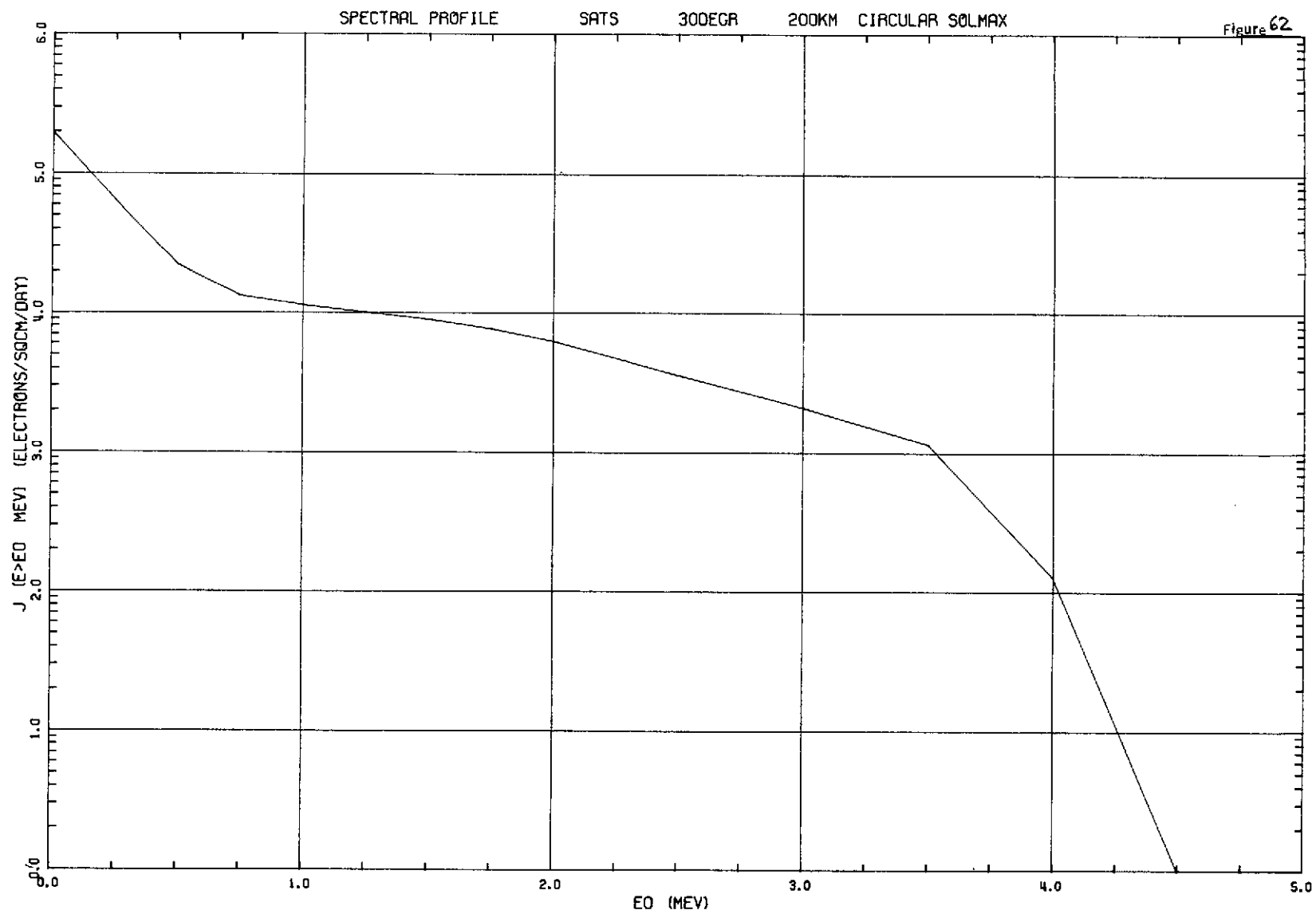


Figure 6/





SPECTRAL PROFILE

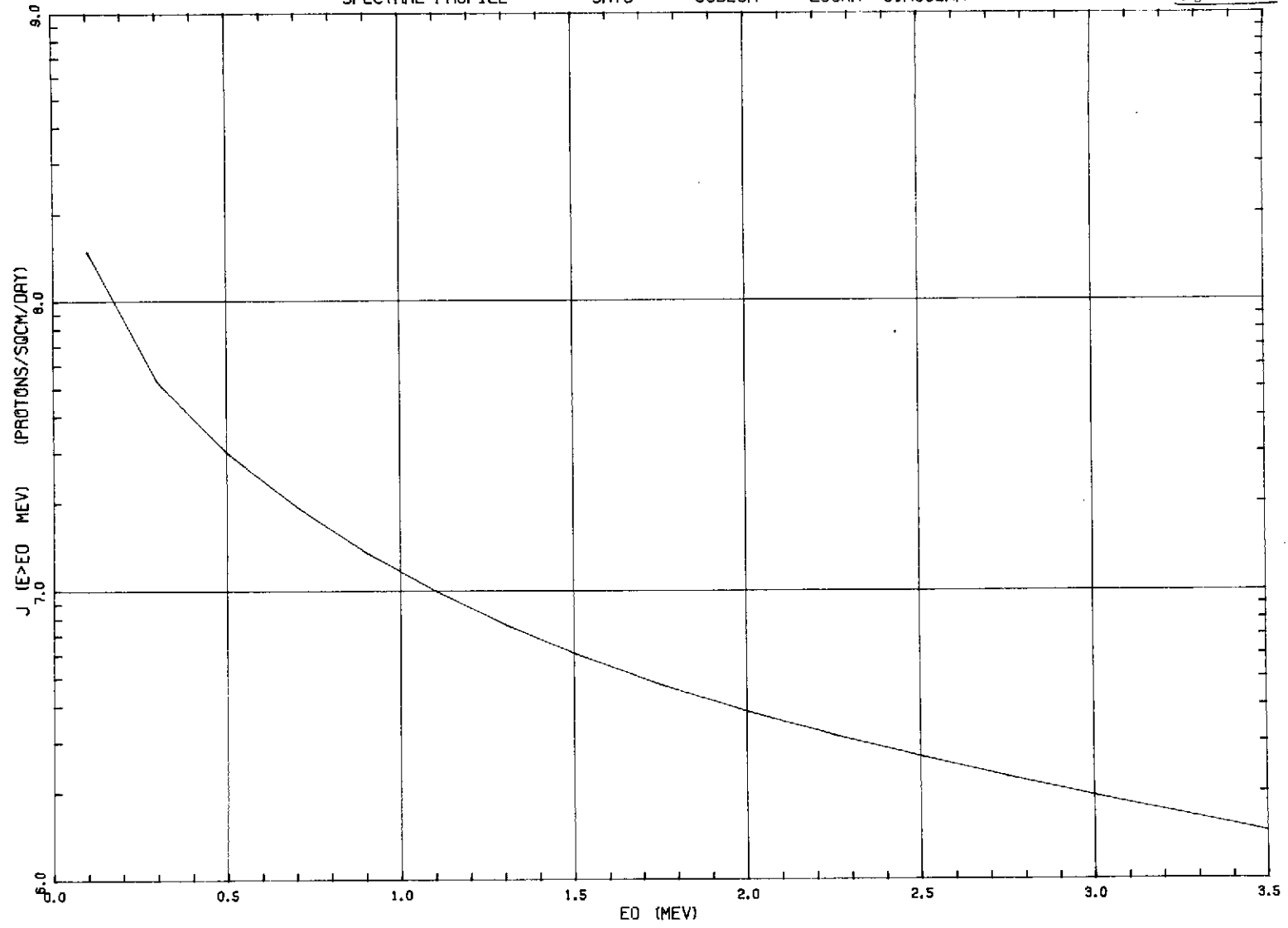
SATS

60DEGR

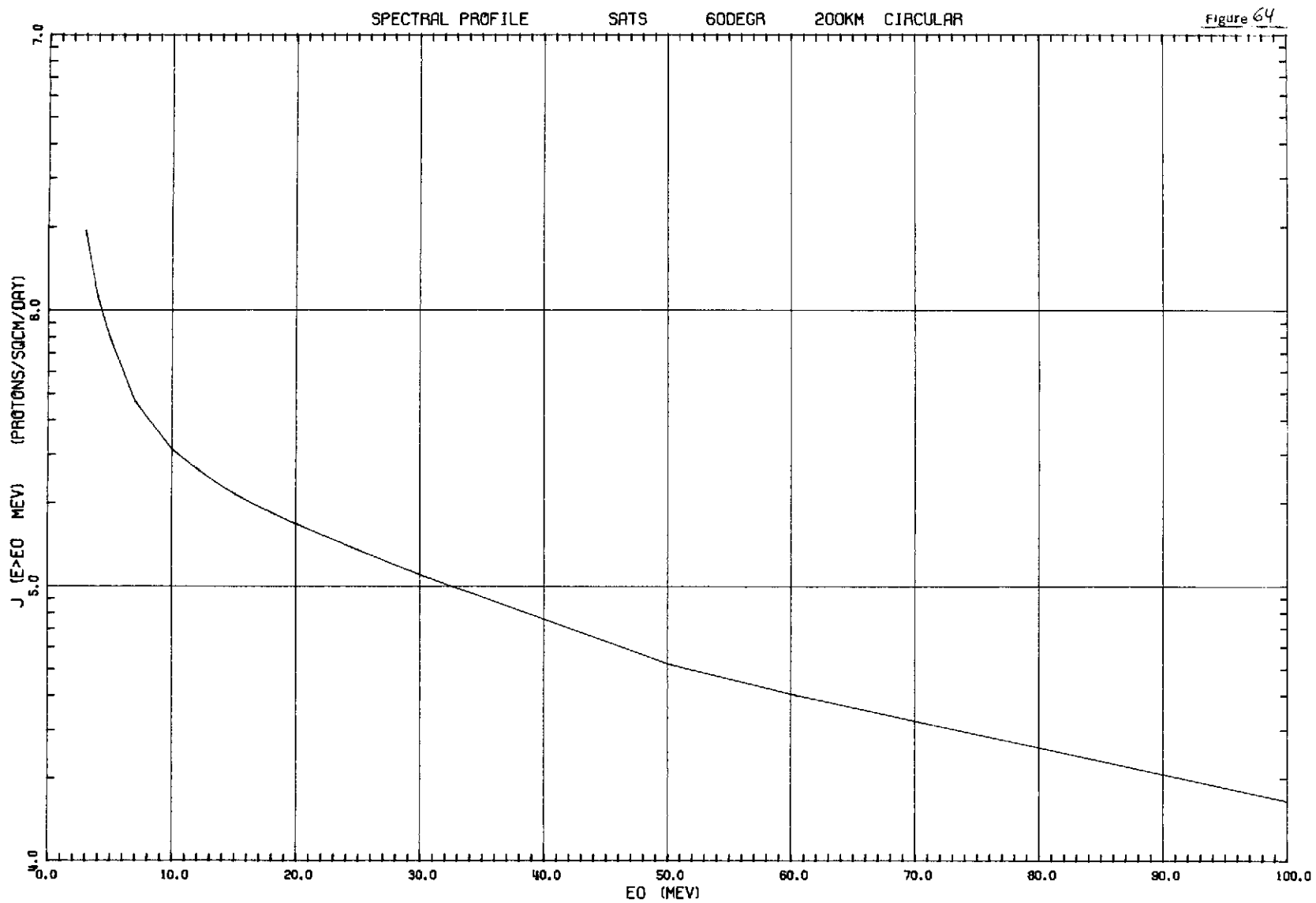
200KM

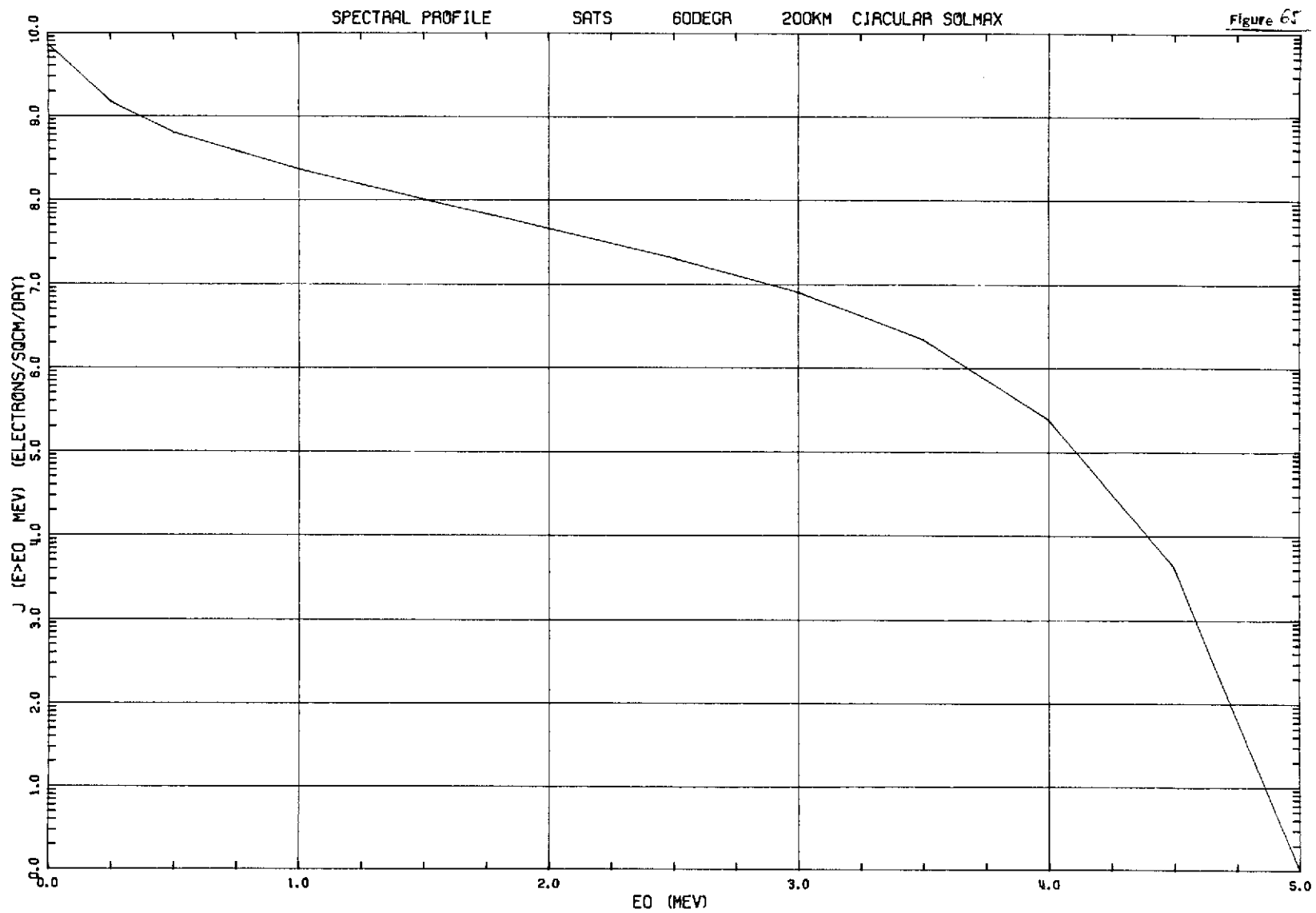
CIRCULAR

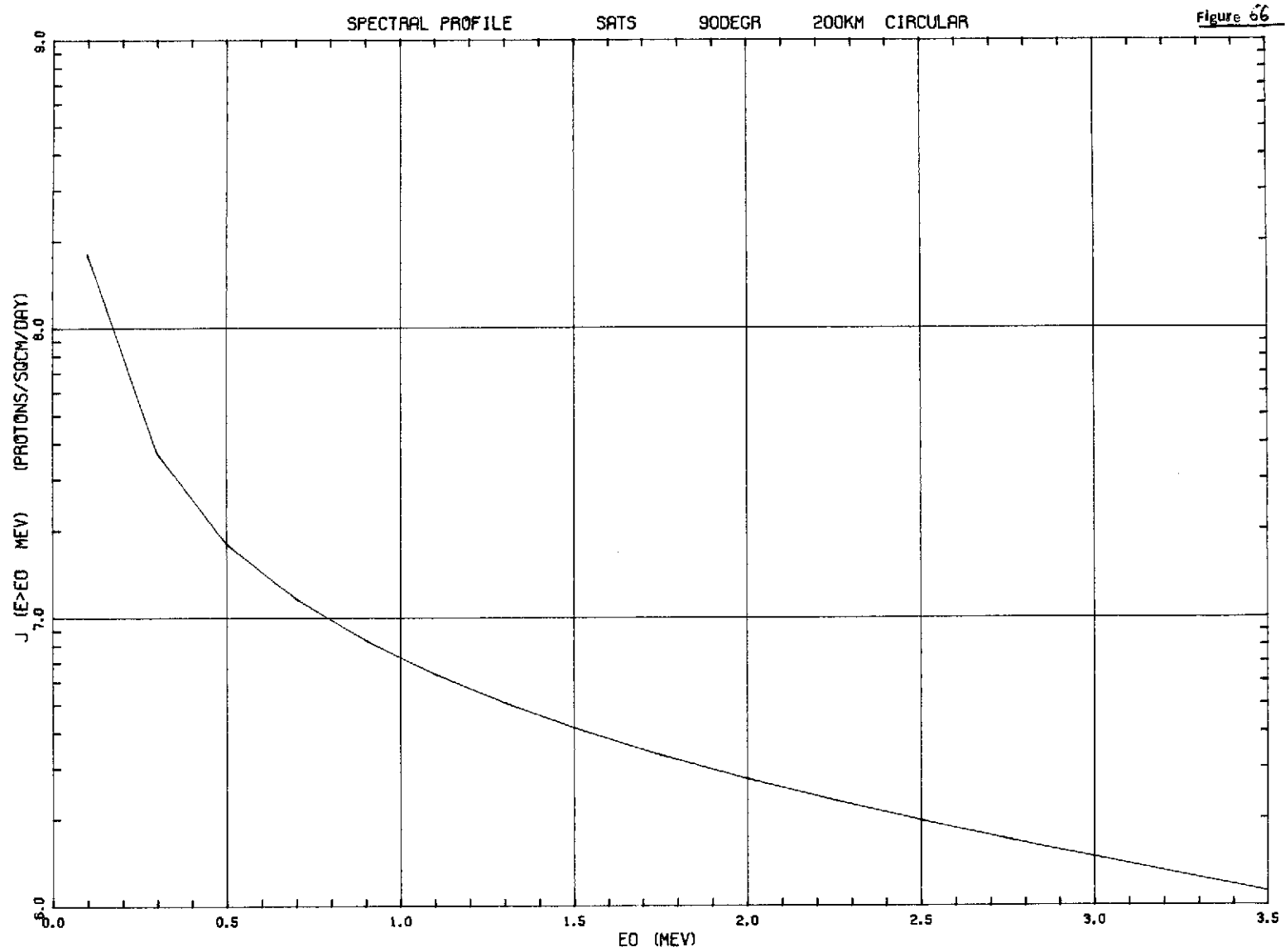
Figure 63

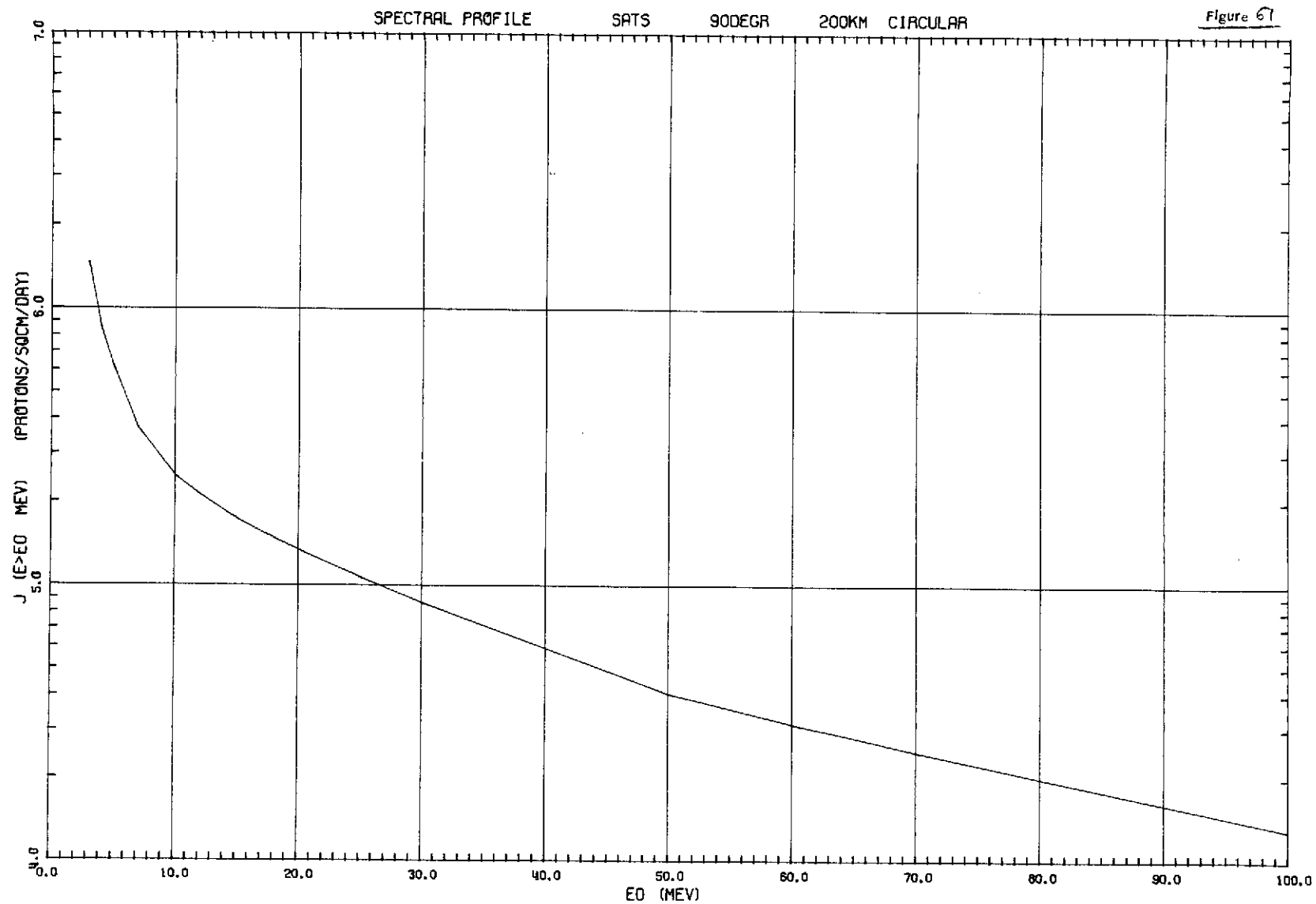


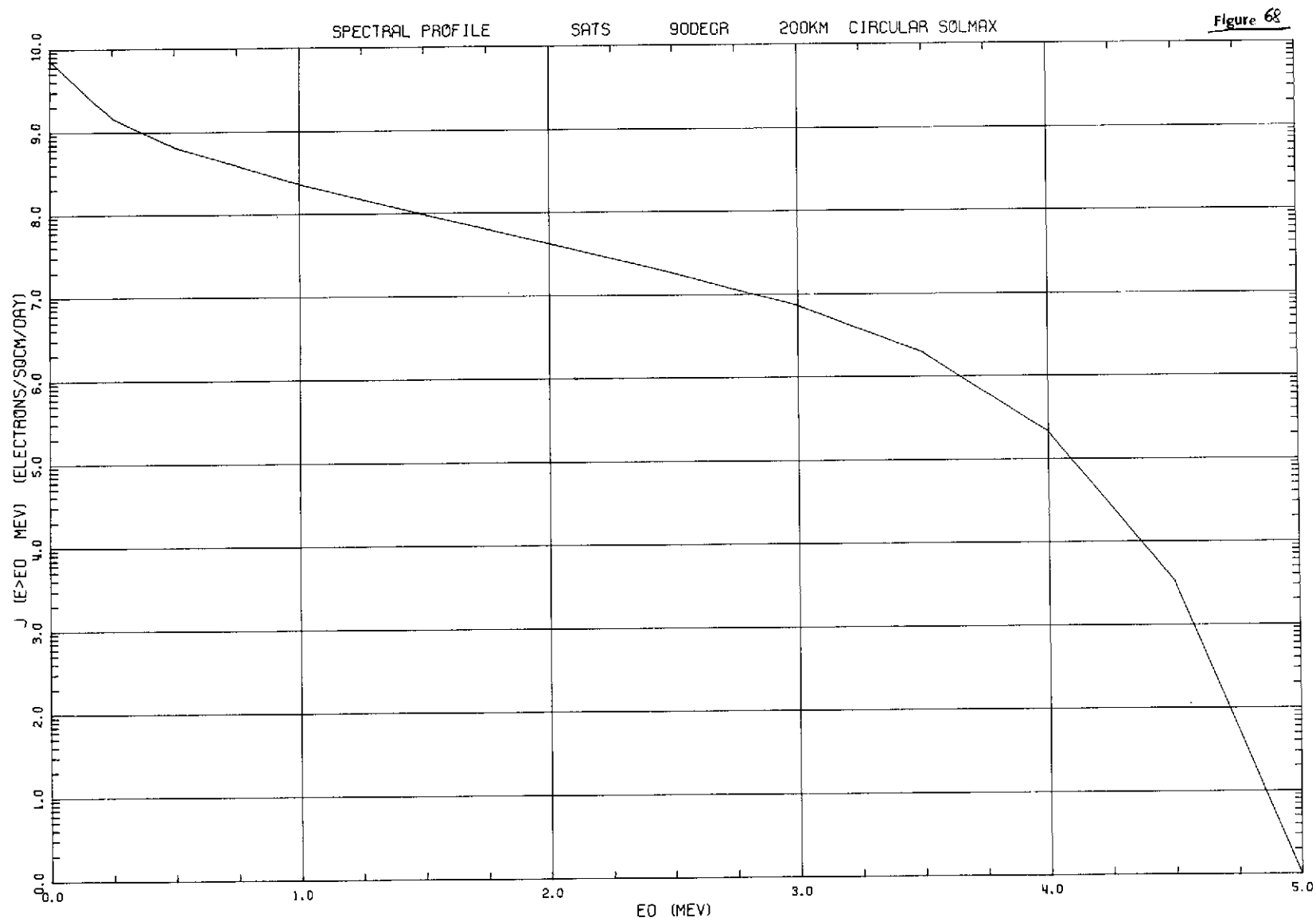
24

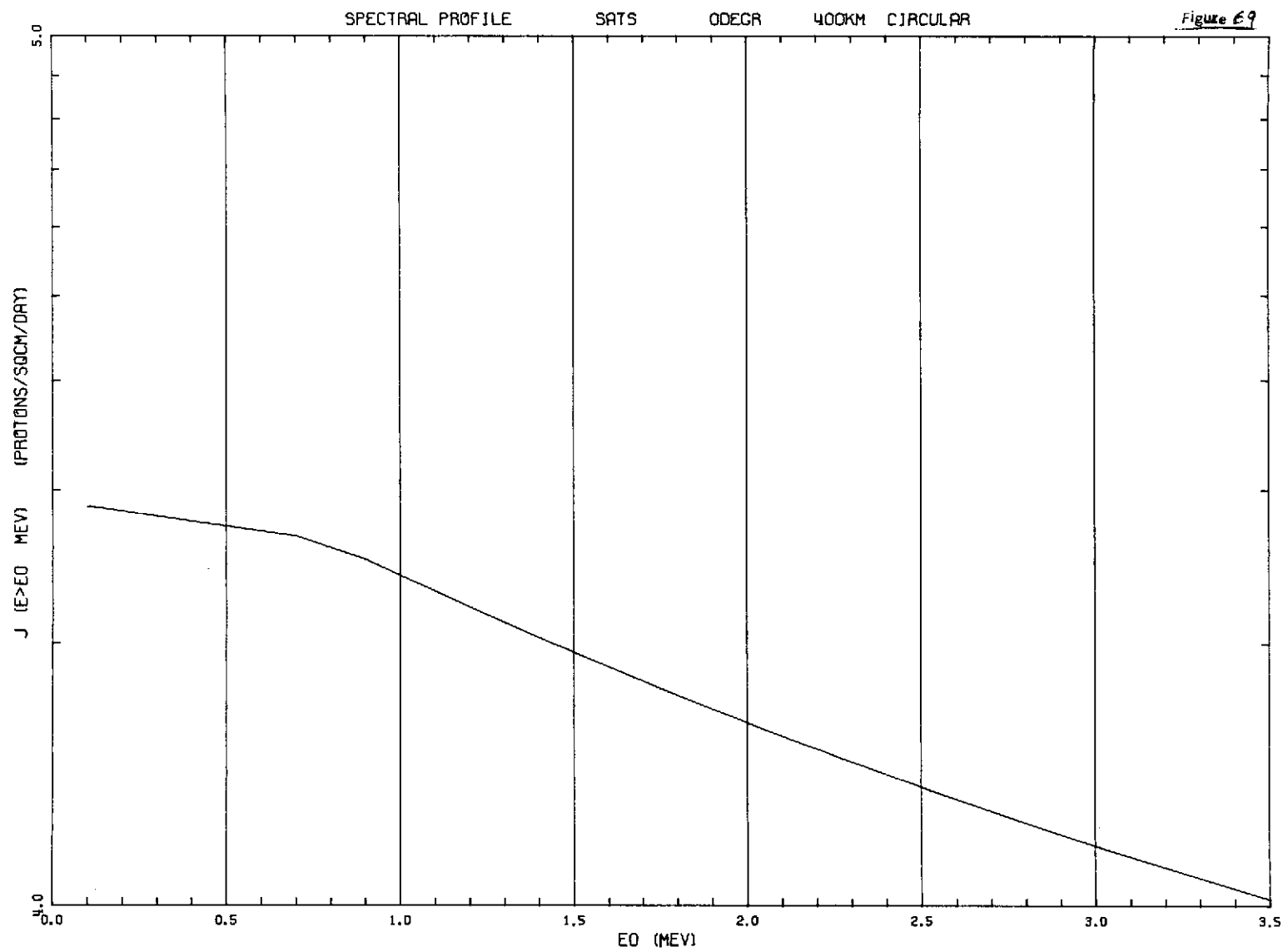






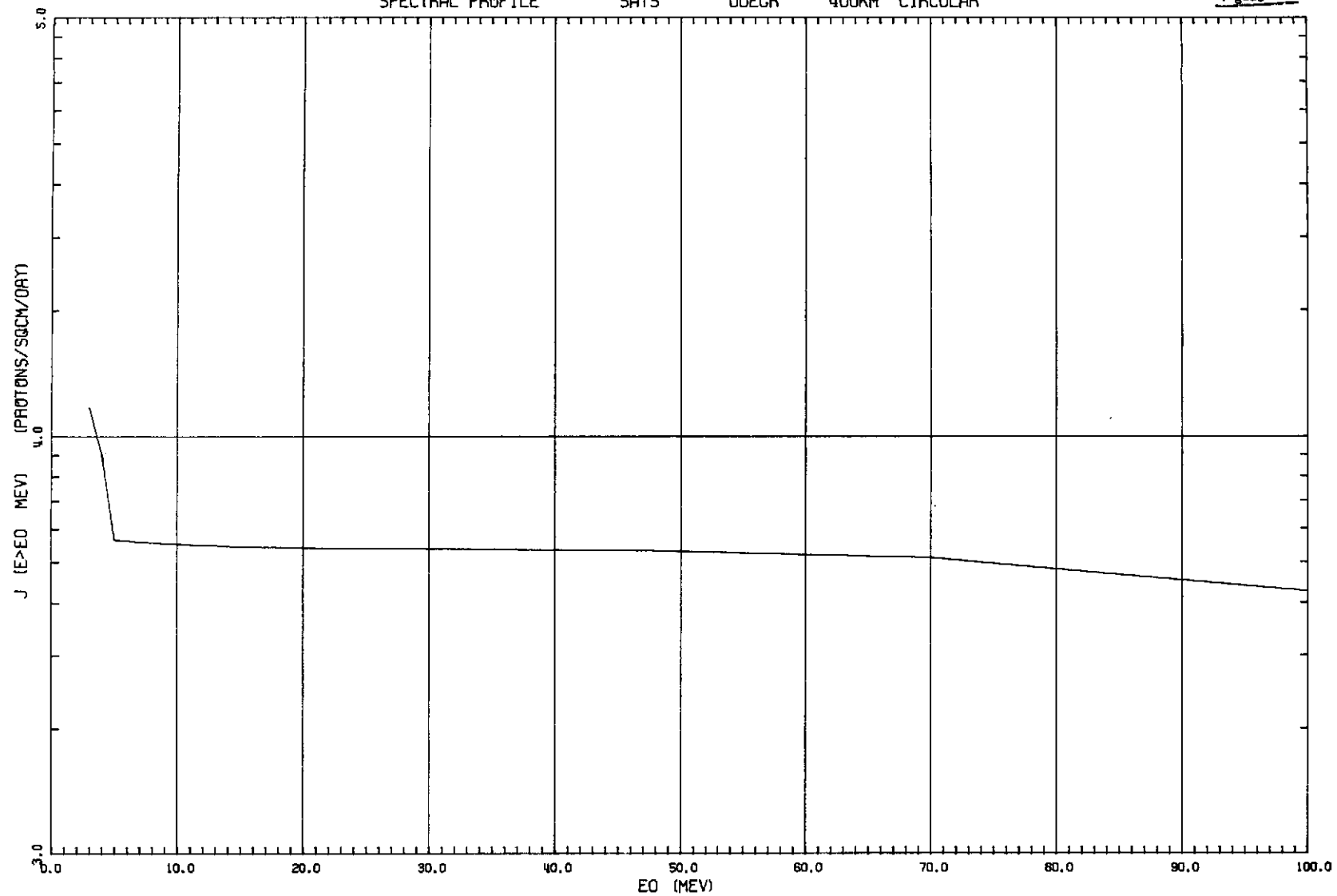


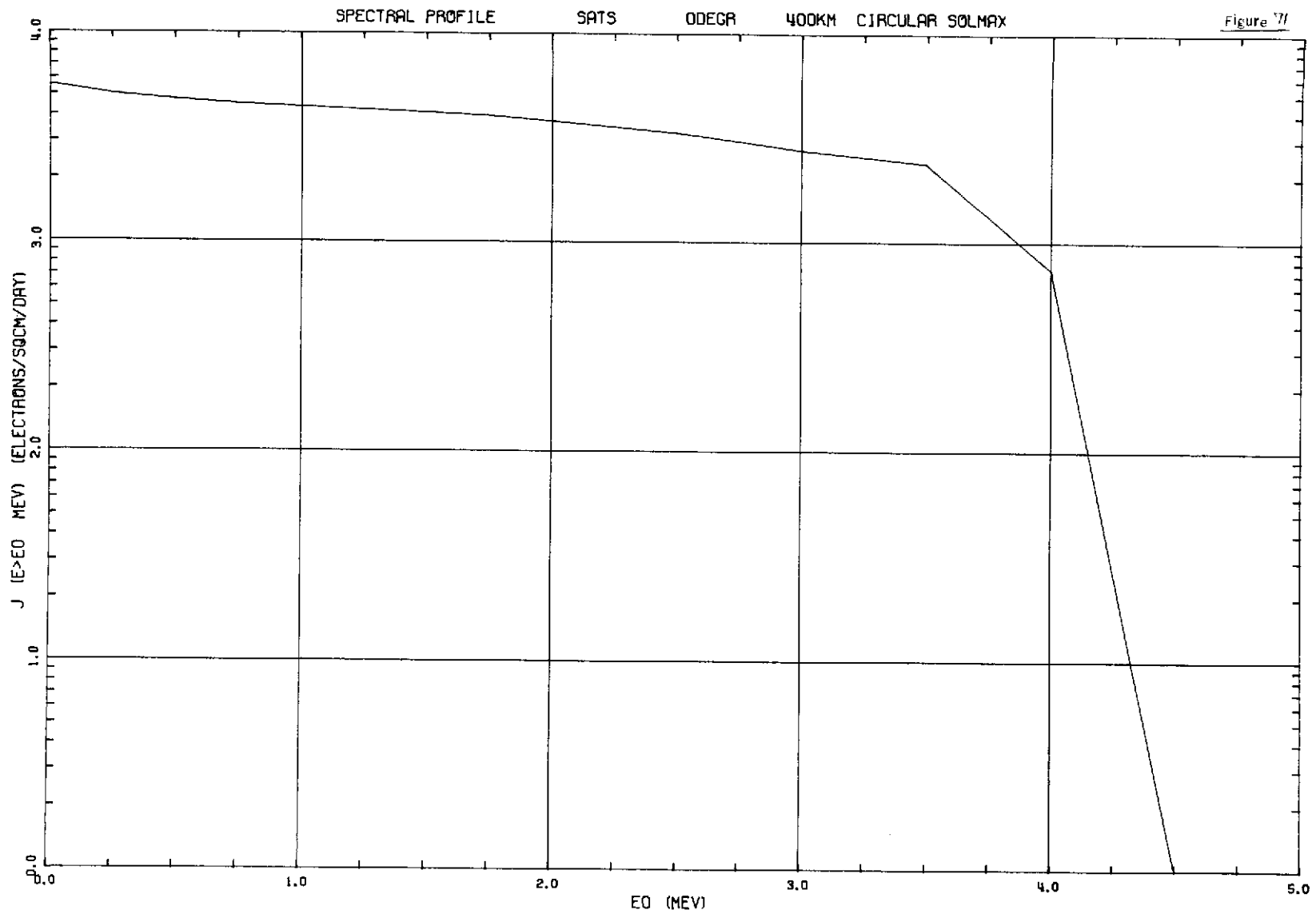


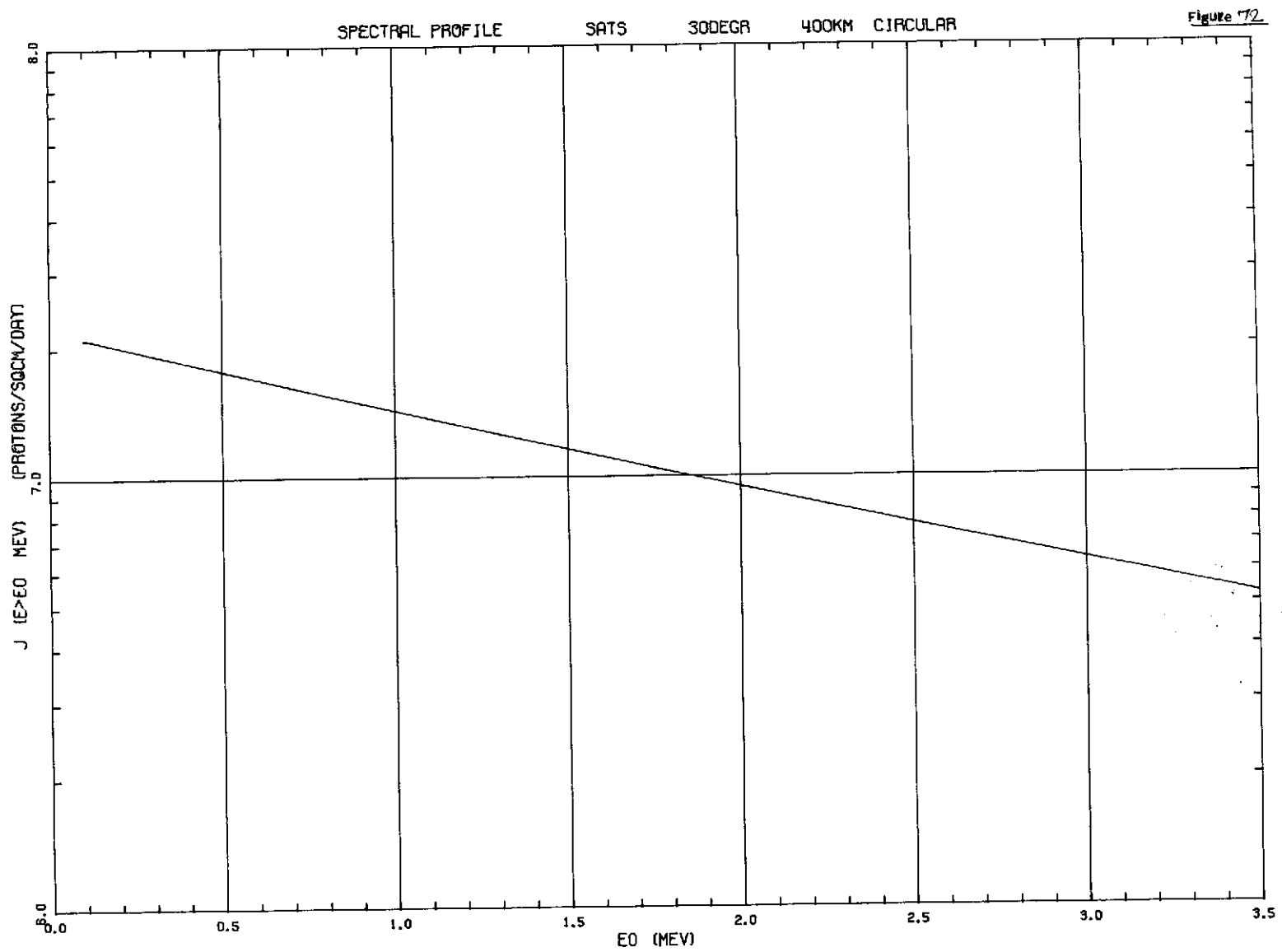


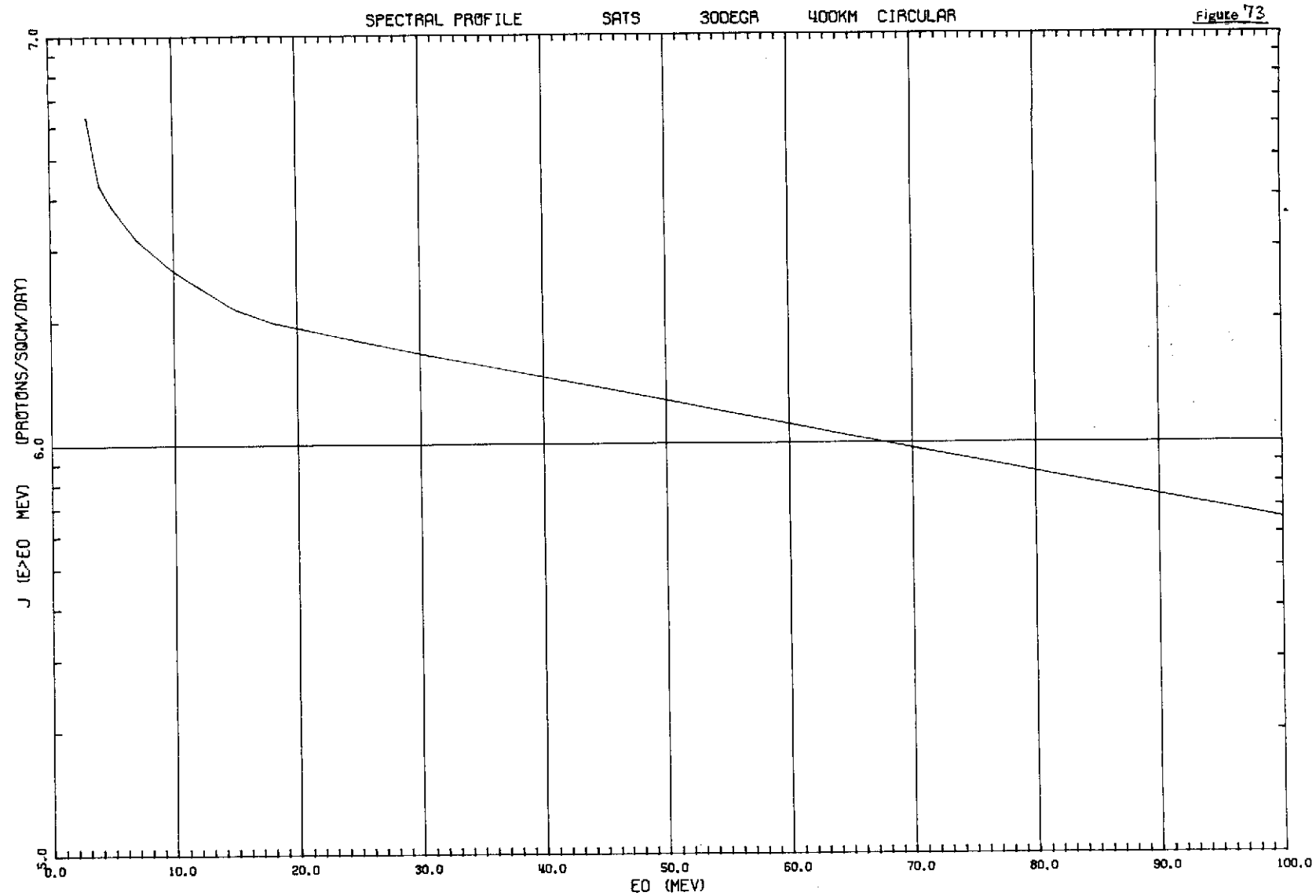
SPECTRAL PROFILE SATS ODEGR 400KM CIRCULAR

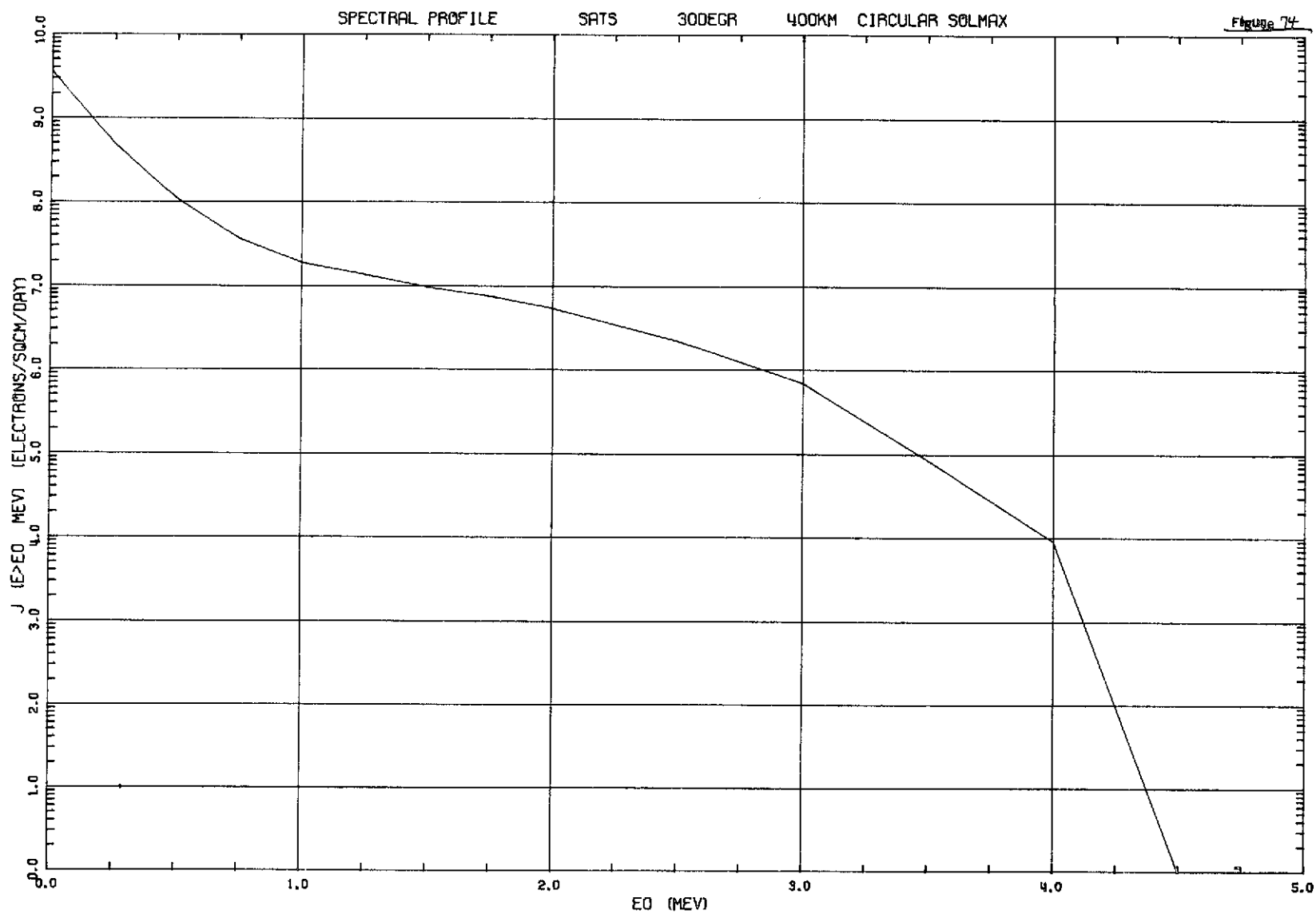
Figure 70

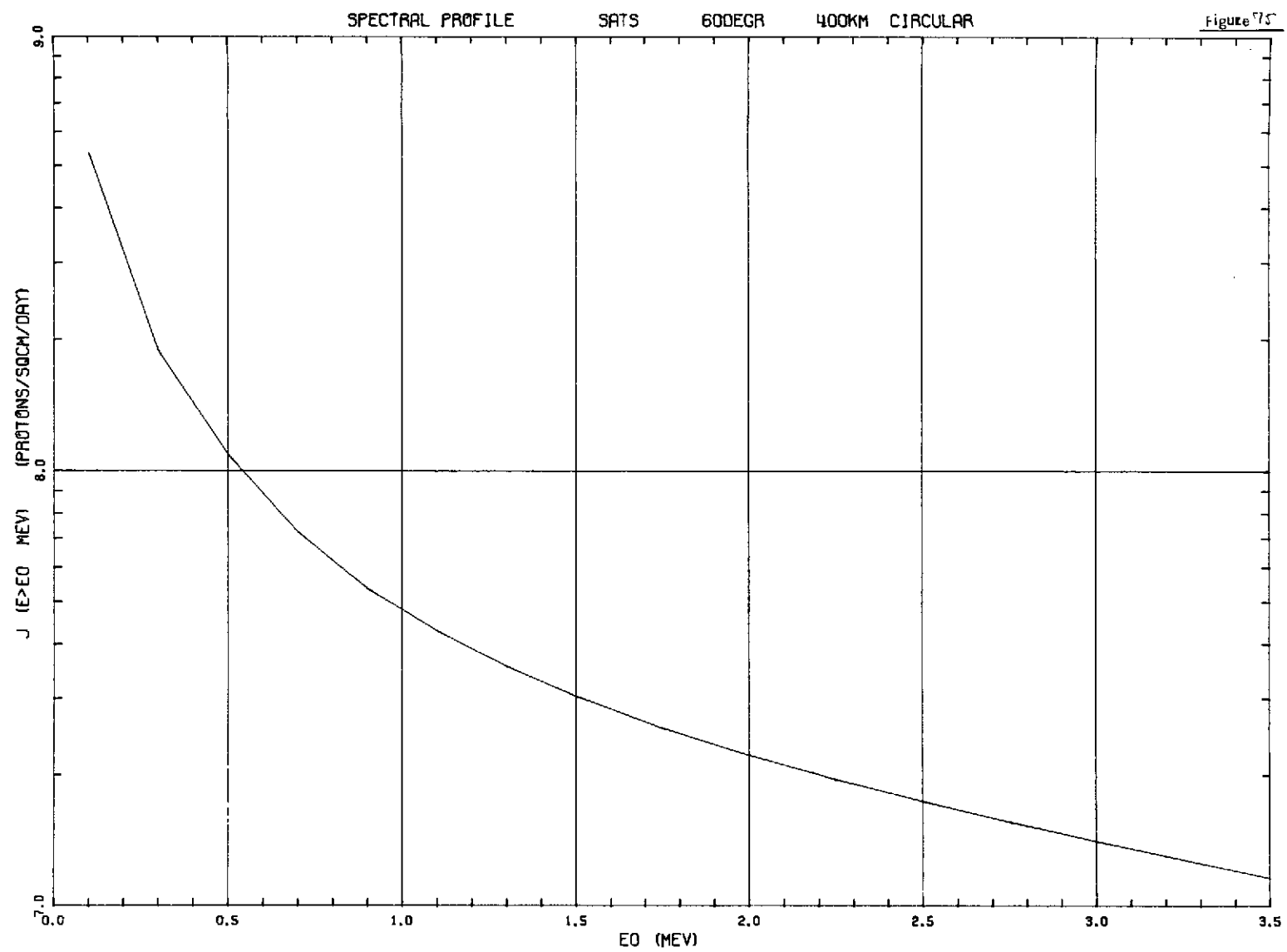


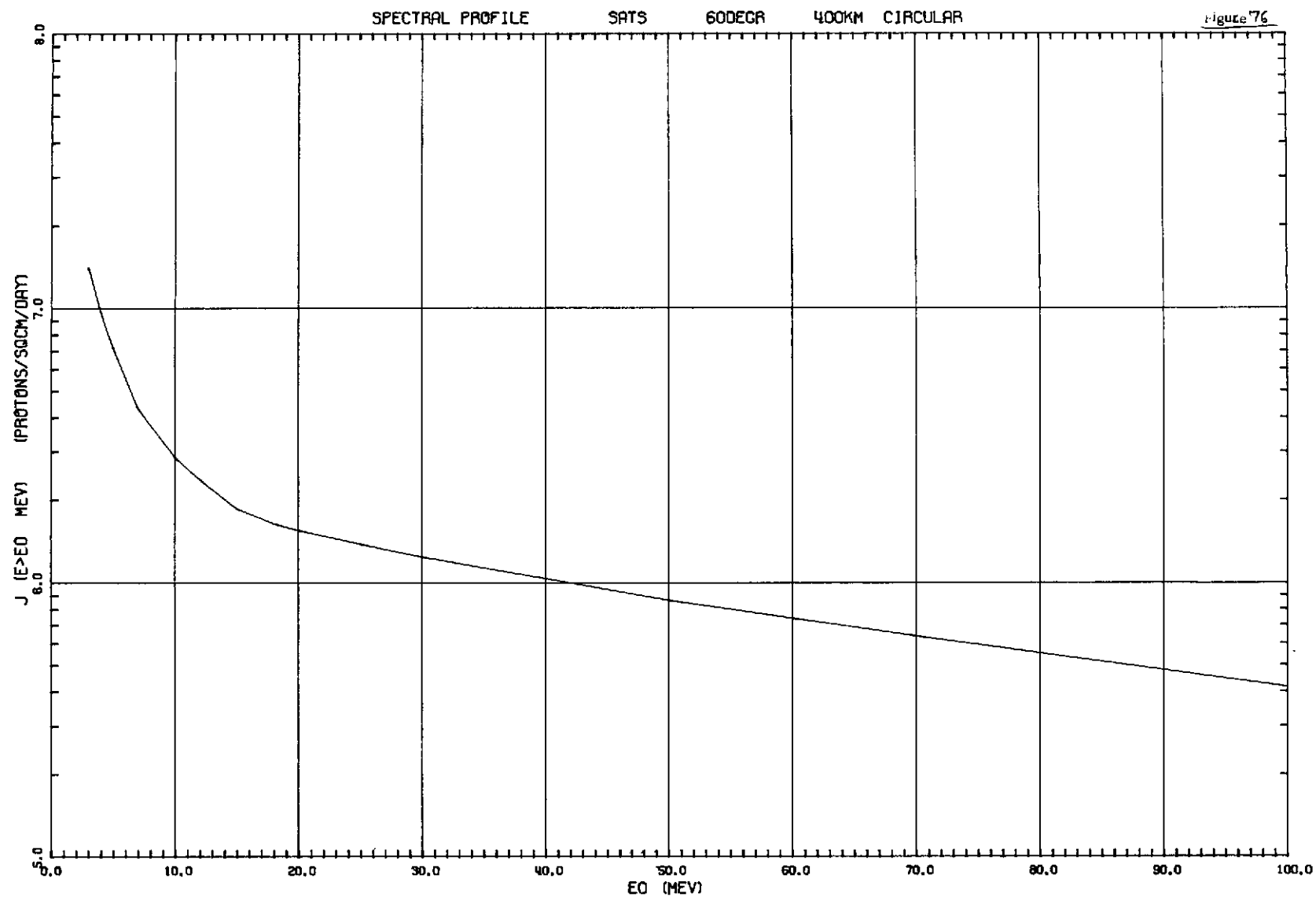












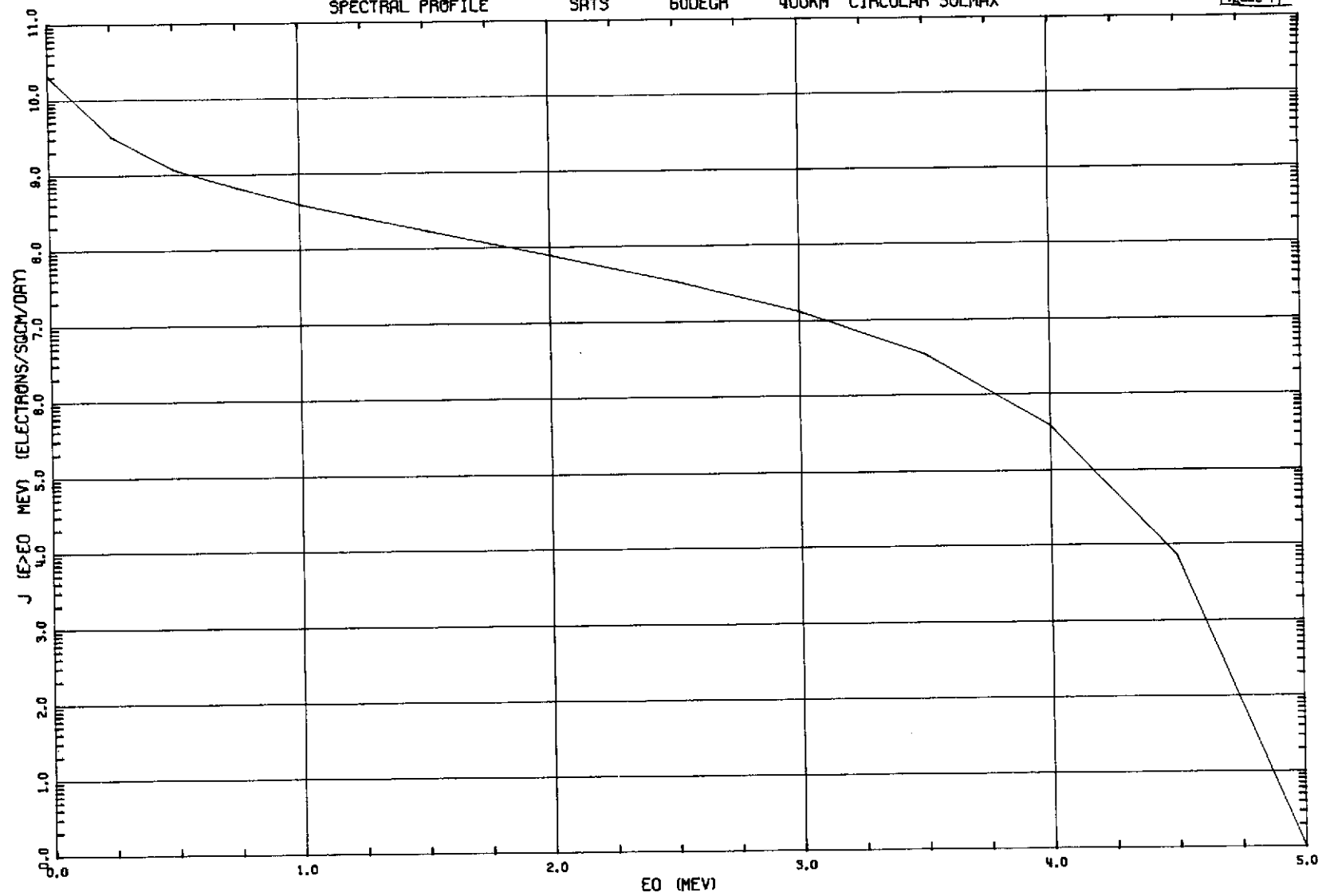
SPECTRAL PROFILE

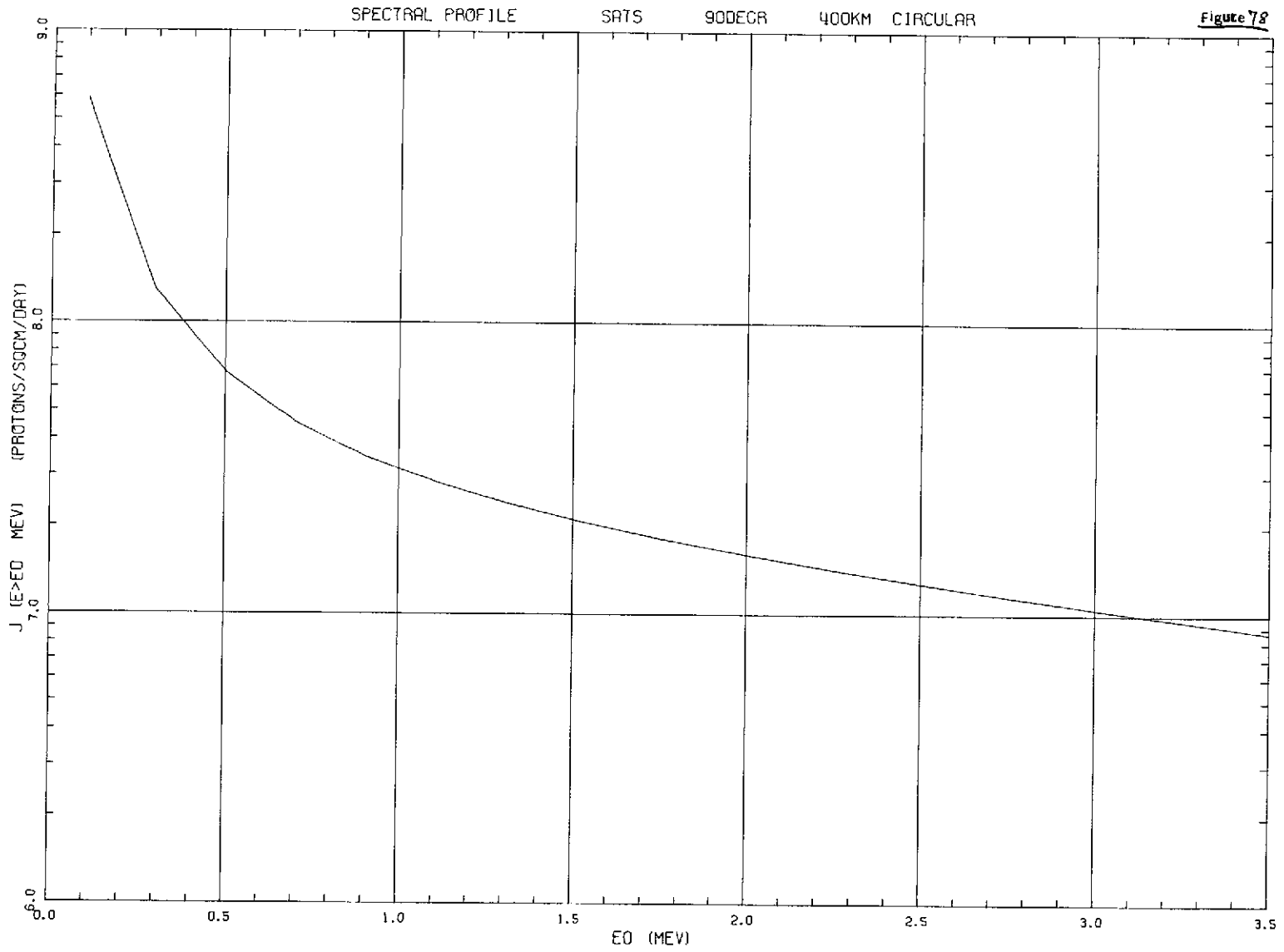
SATS

60DEGR

400KM CIRCULAR SOLMAX

Figure 77





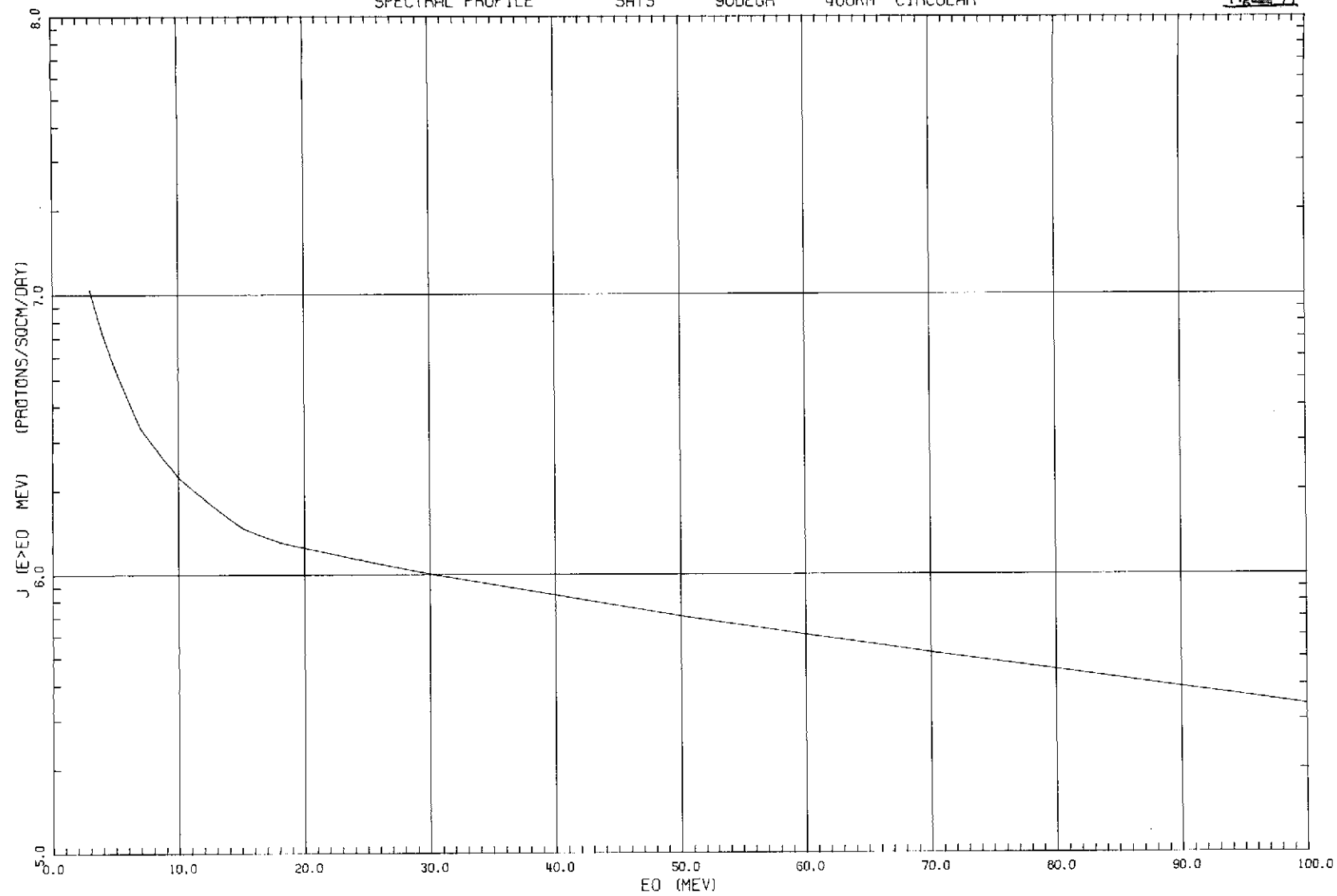
SPECTRAL PROFILE

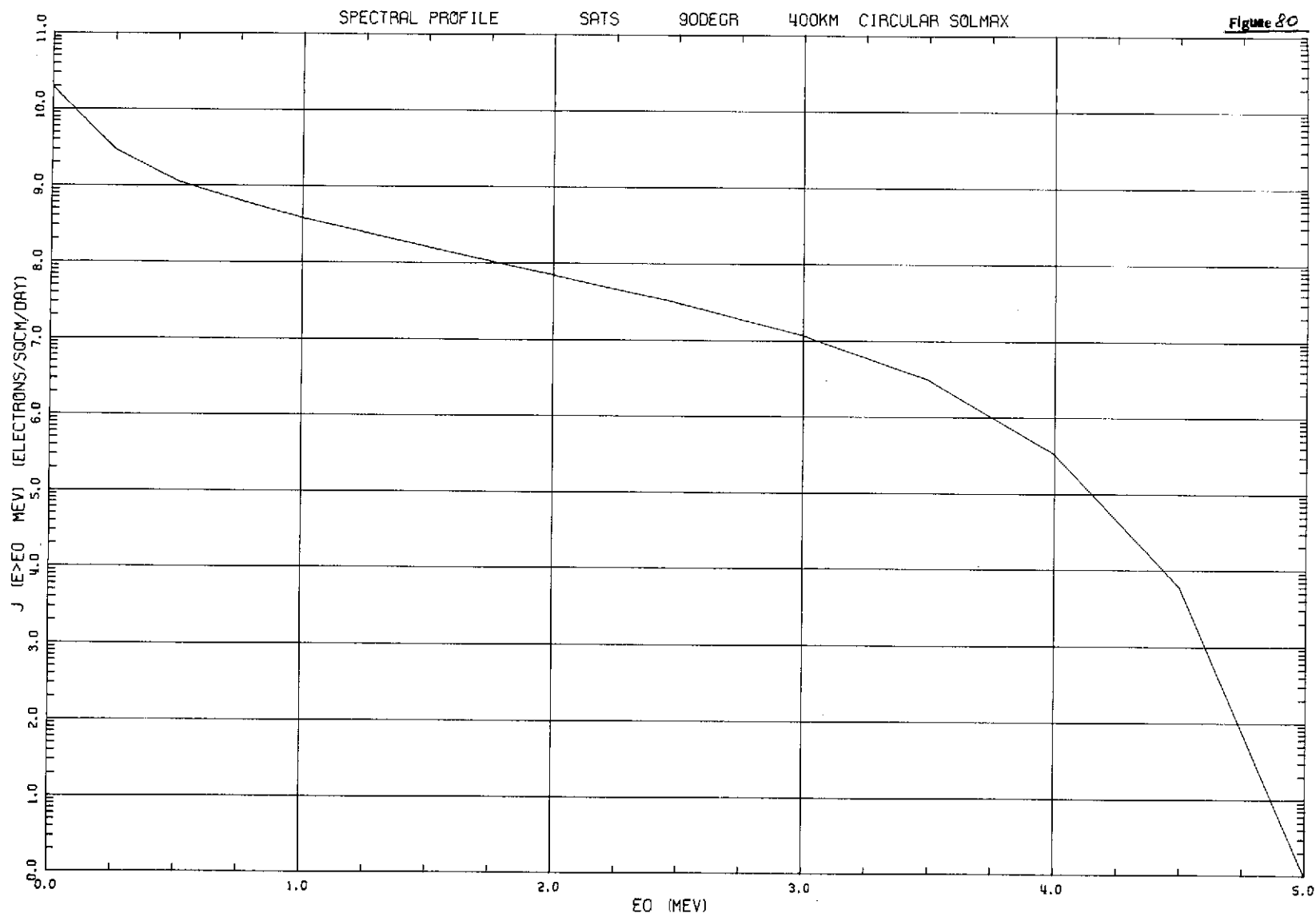
SATS

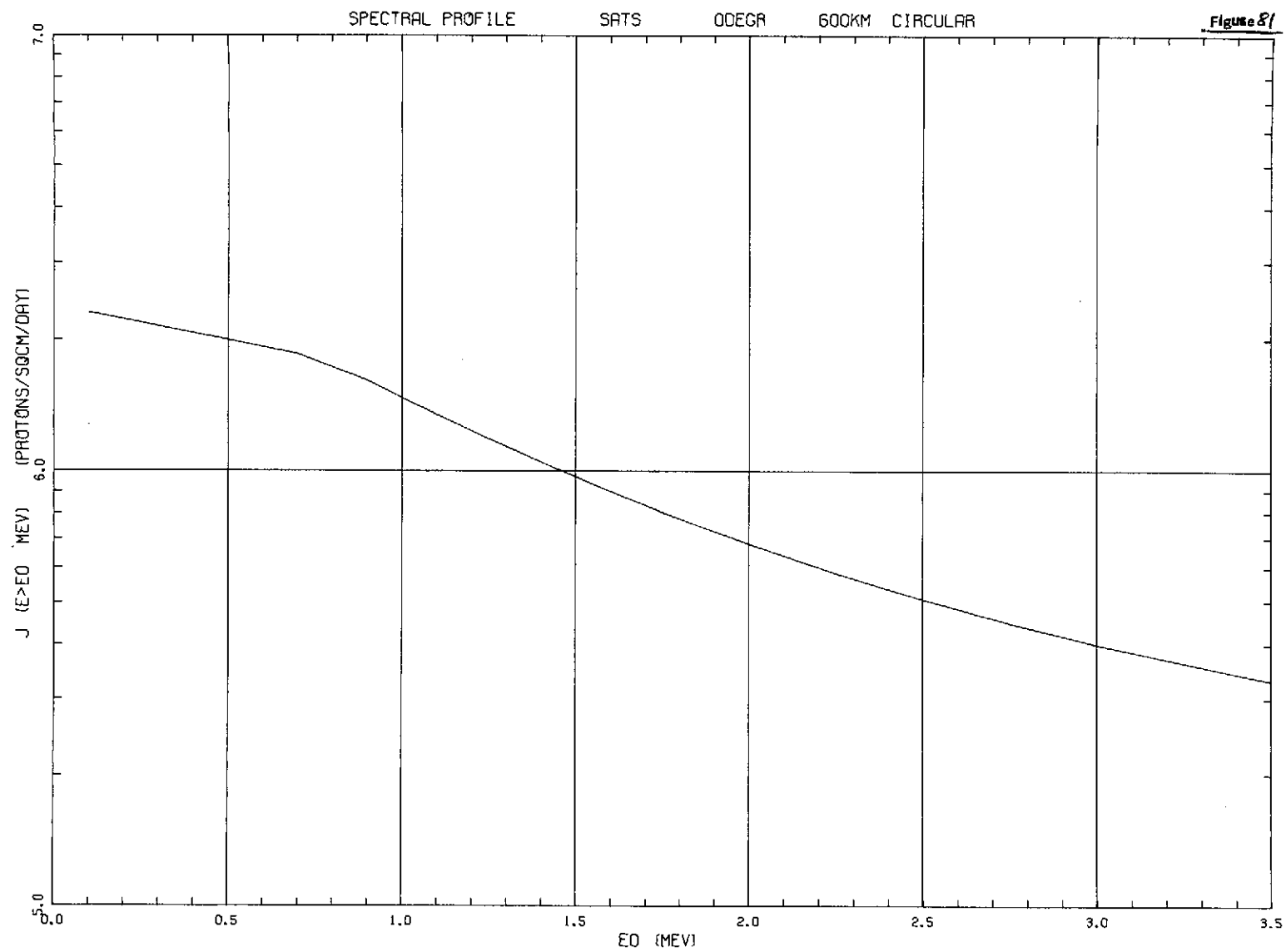
90DEGR

400KM CIRCULAR

Figure 79







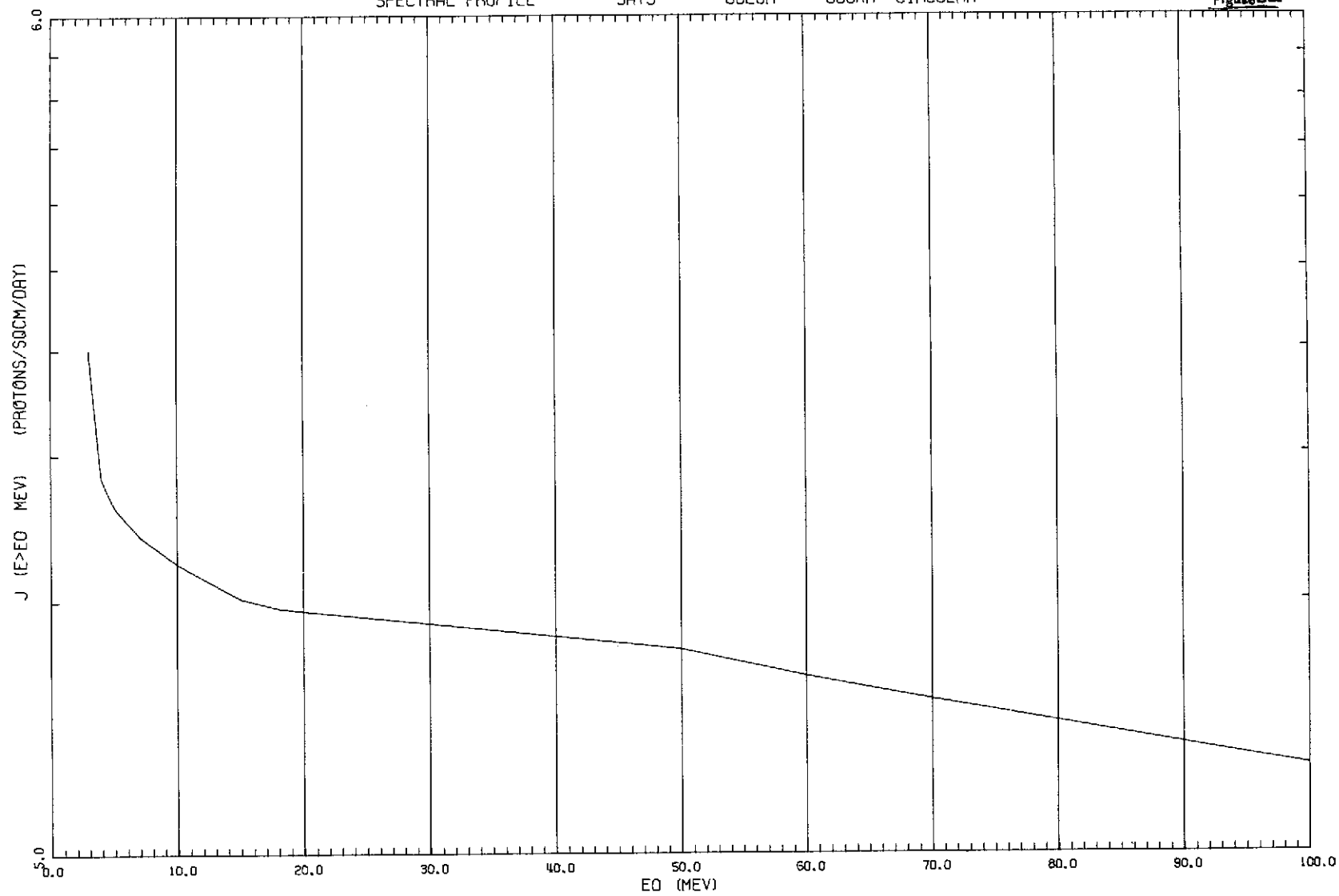
SPECTRAL PROFILE

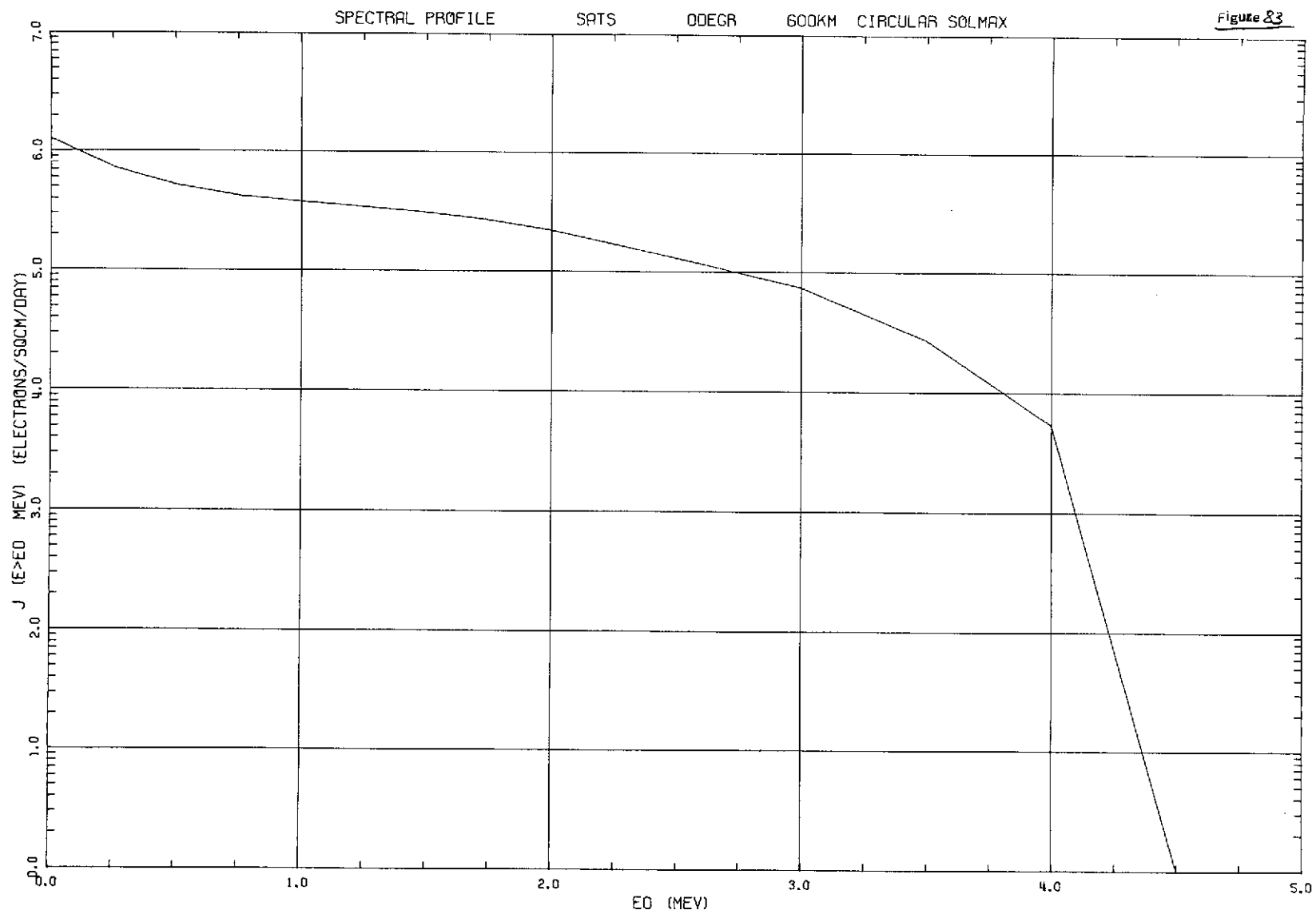
SATS

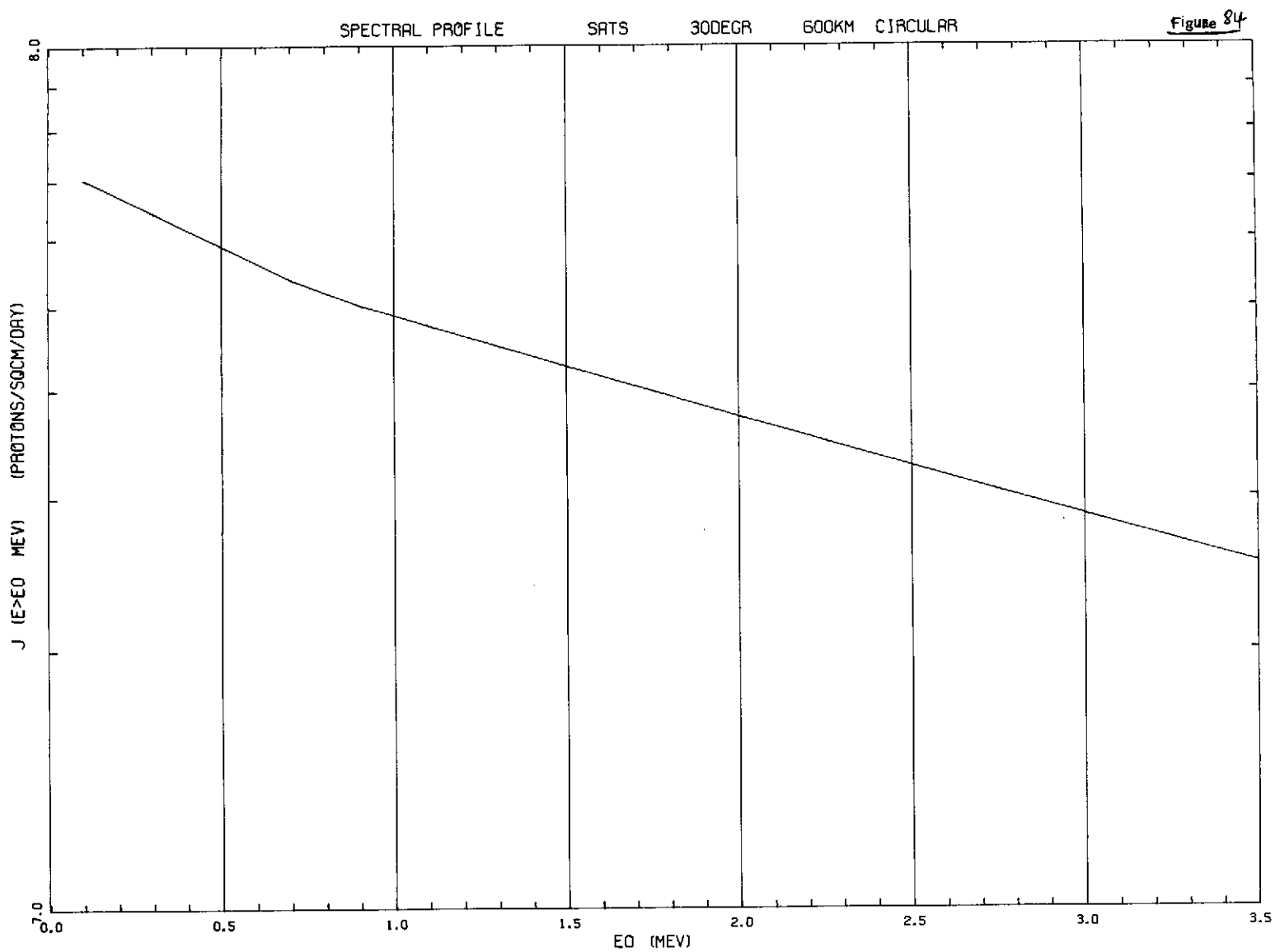
ODEGR

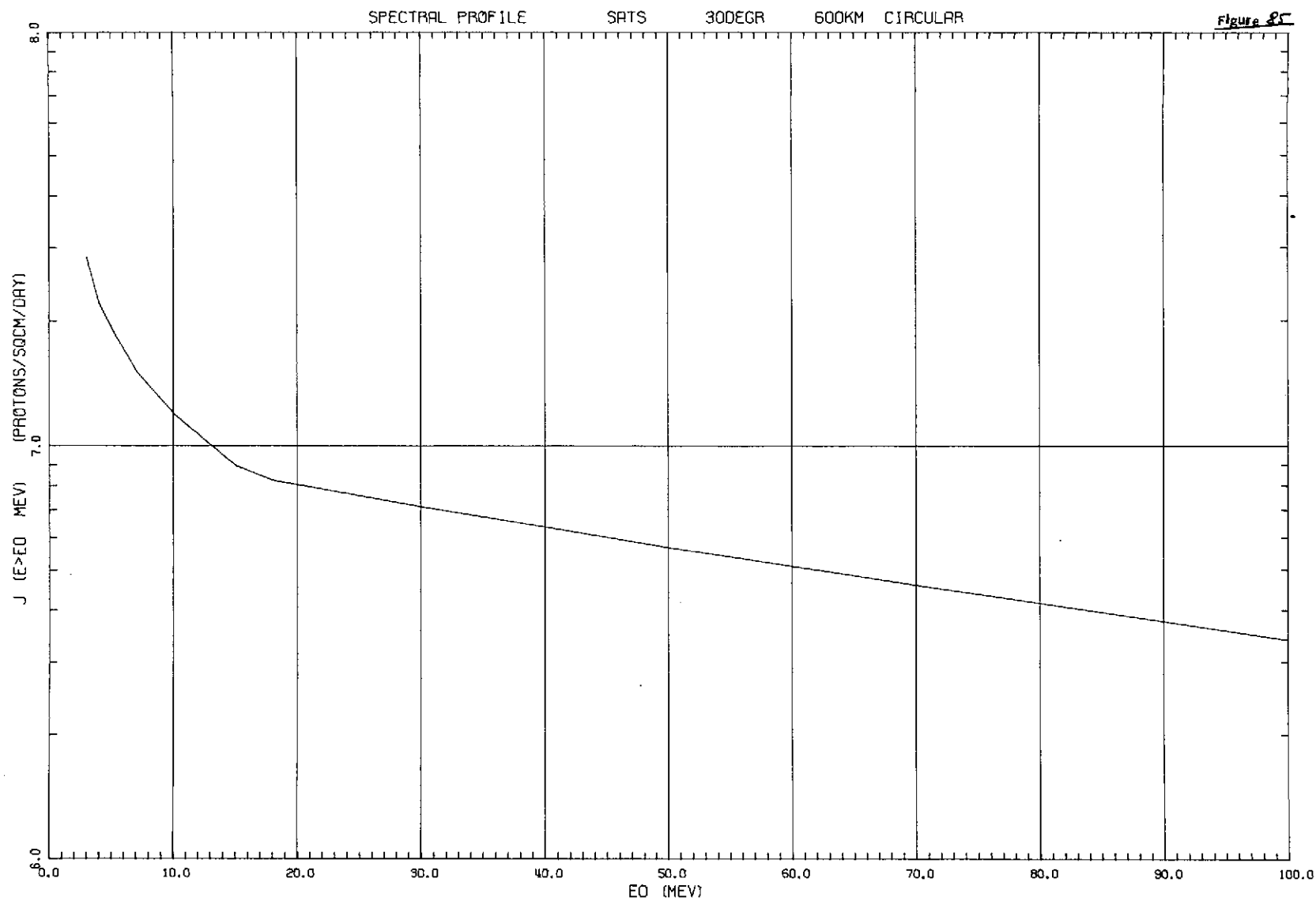
500KM CIRCULAR

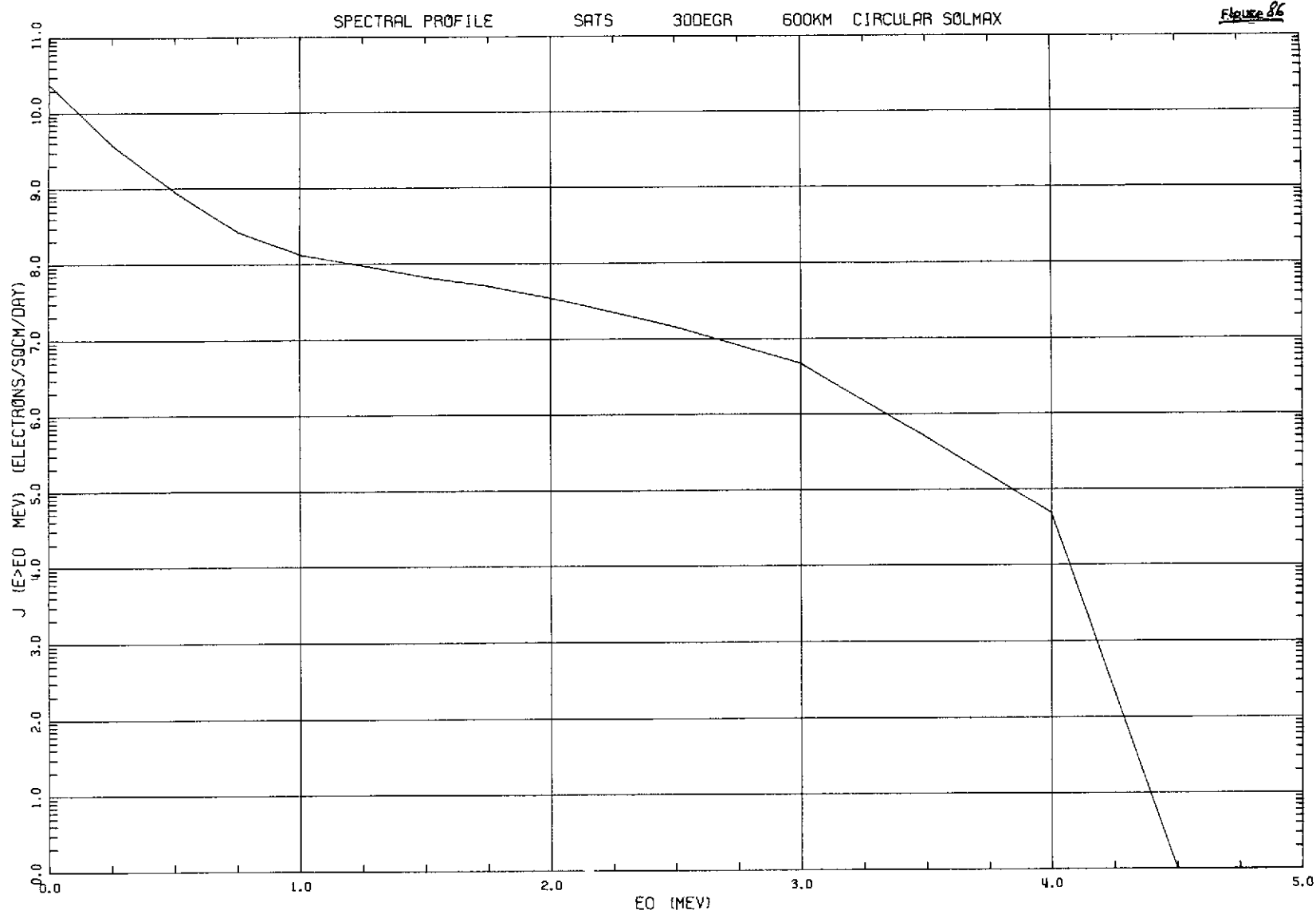
Figure 82

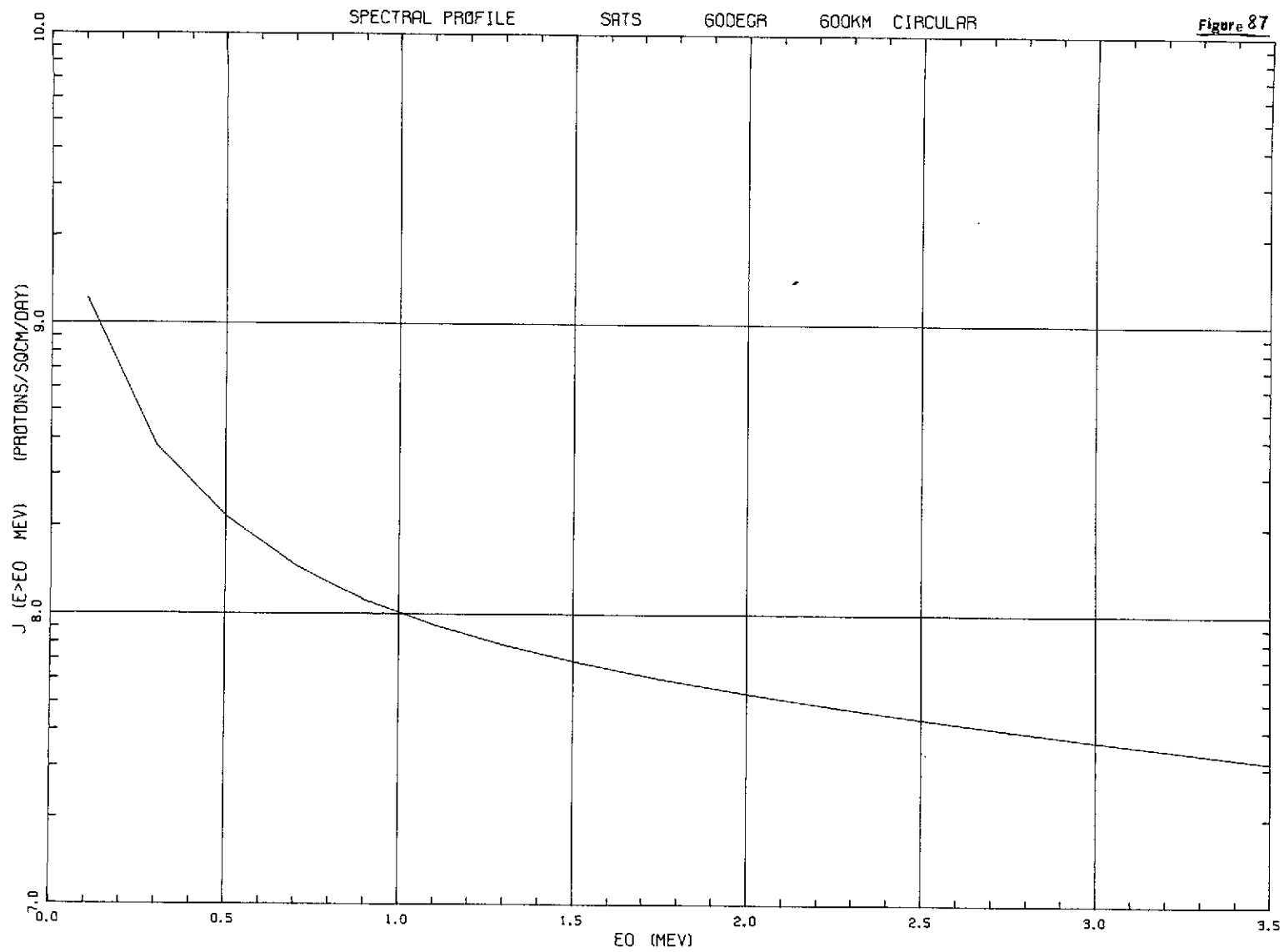












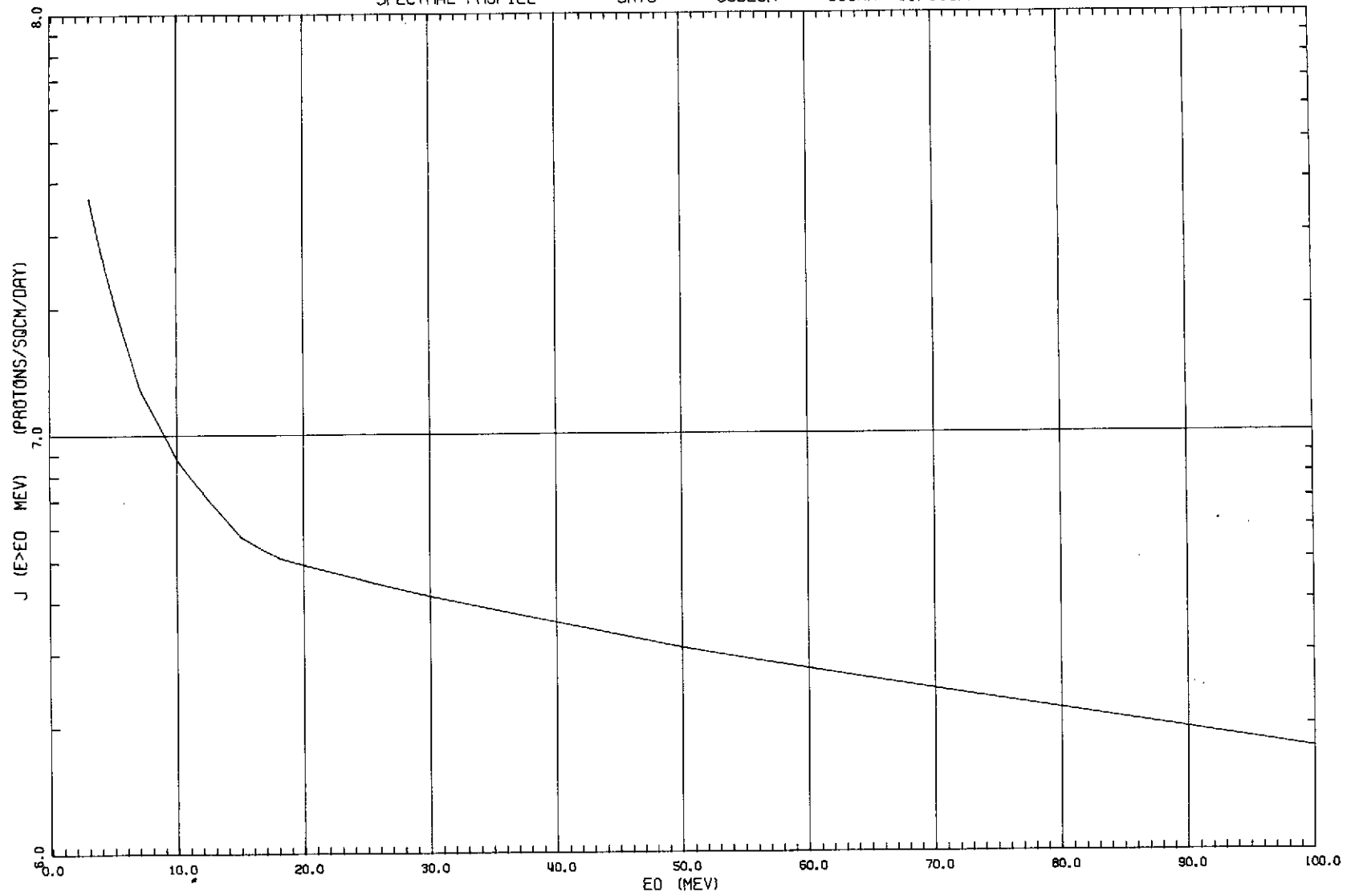
SPECTRAL PROFILE

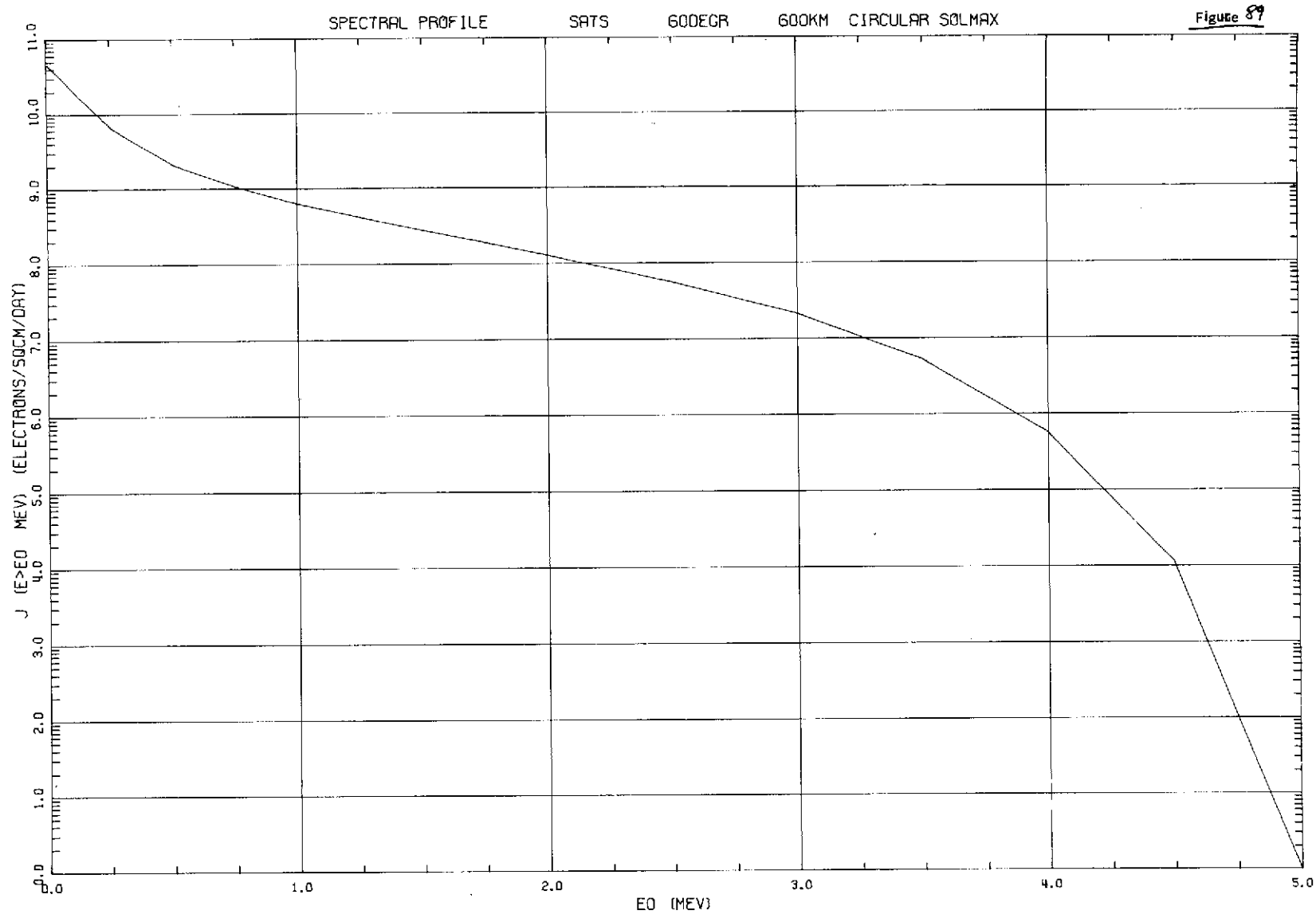
SATS

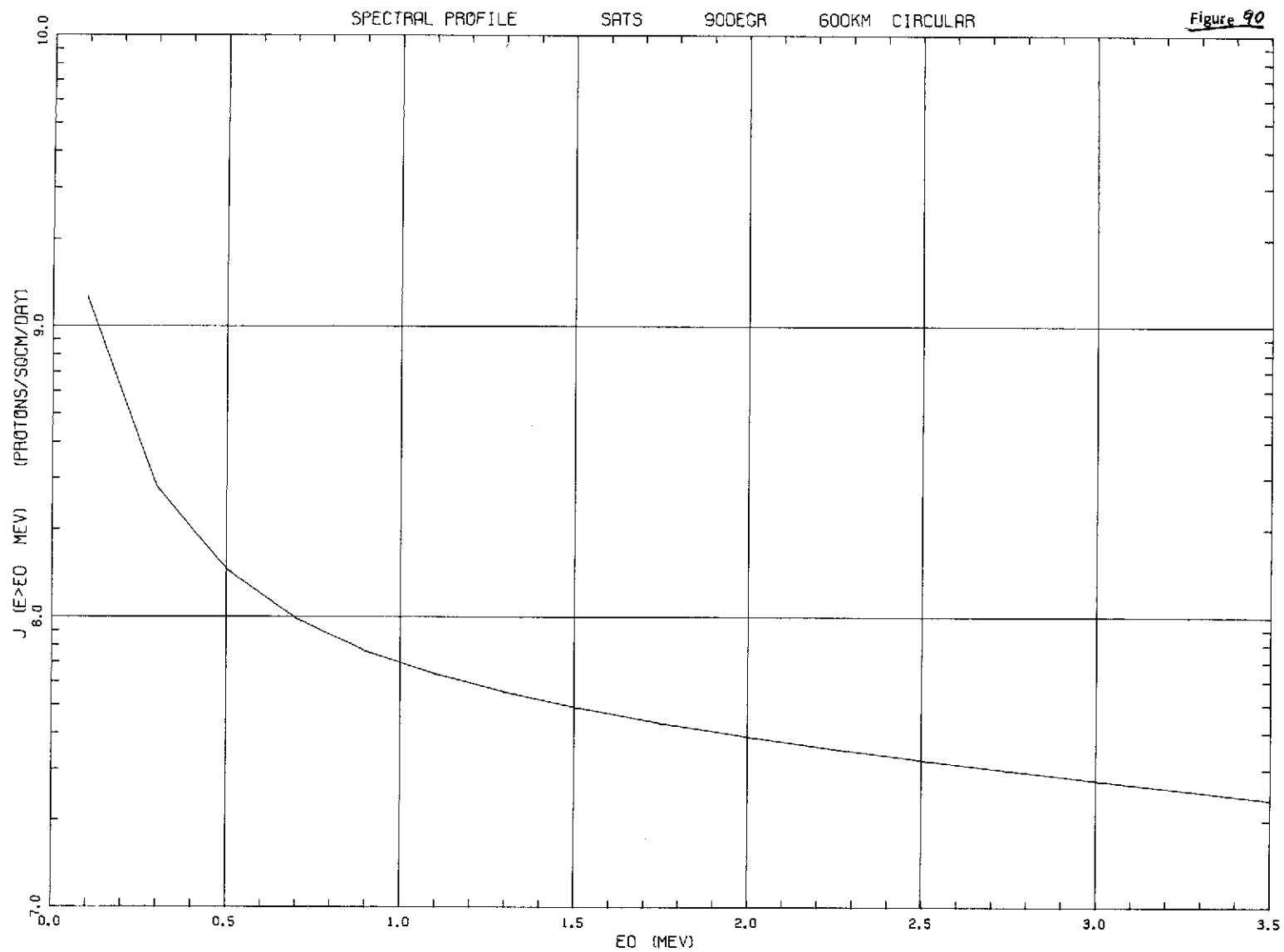
60DEGR

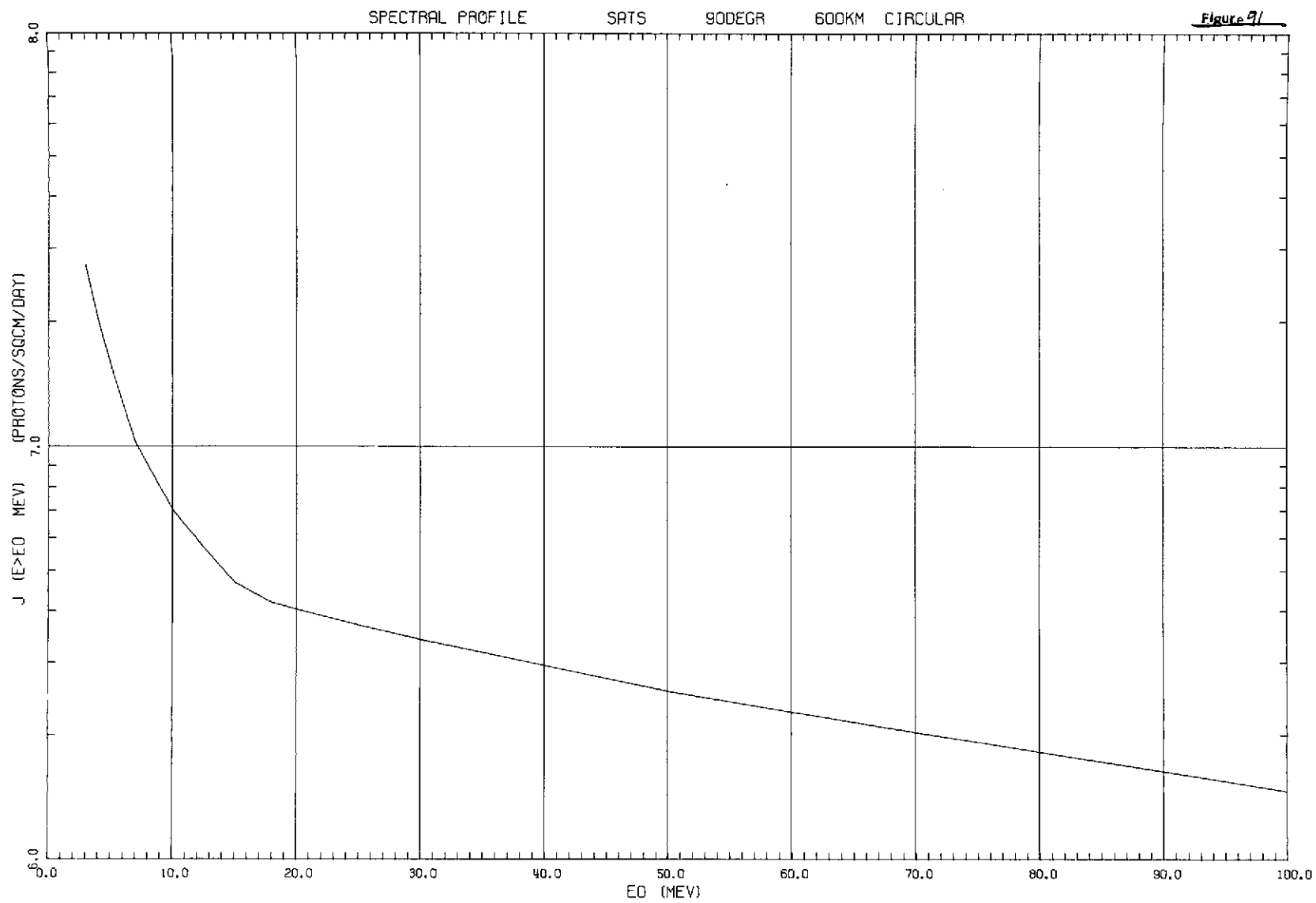
600KM CIRCULAR

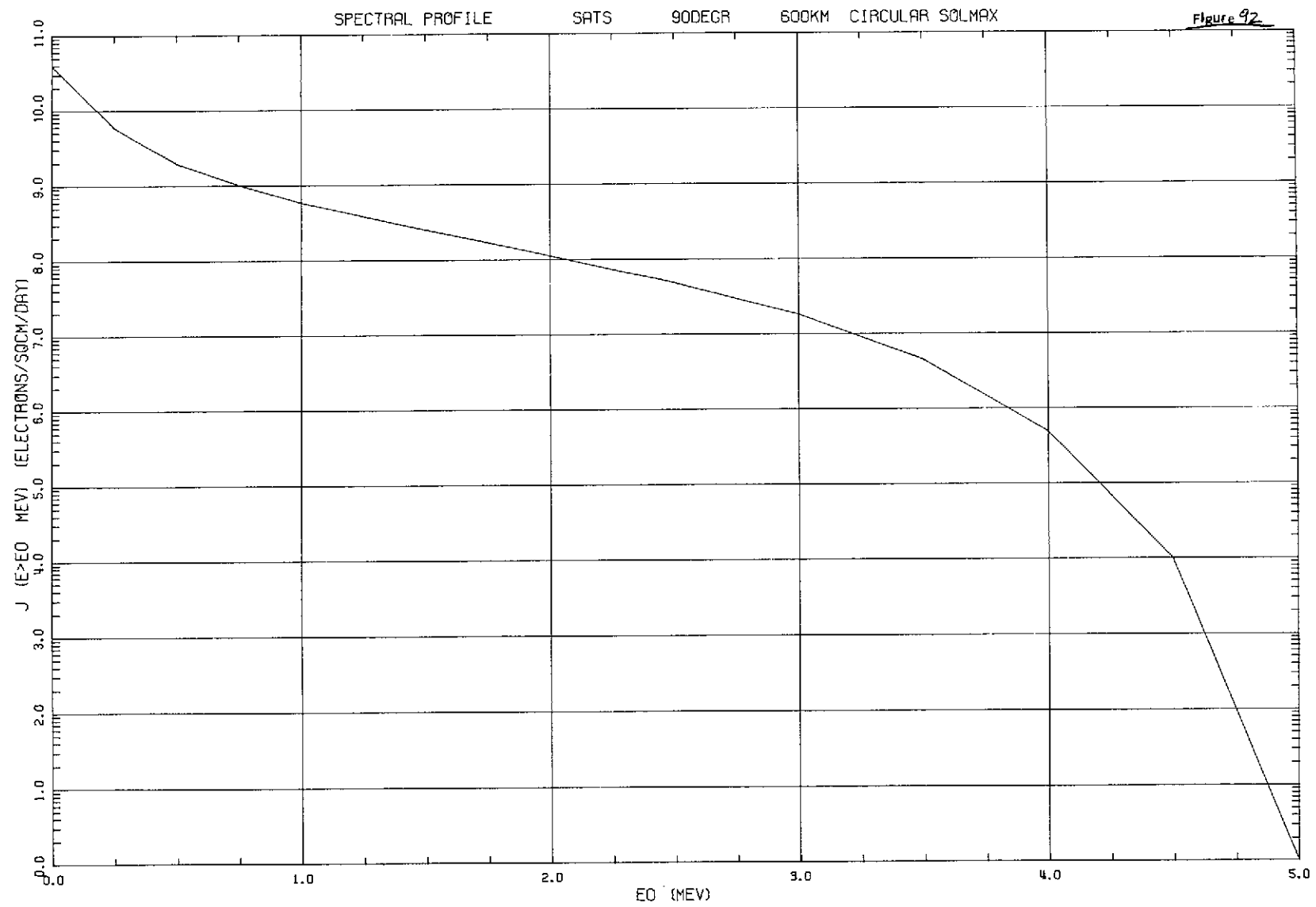
Figure 22











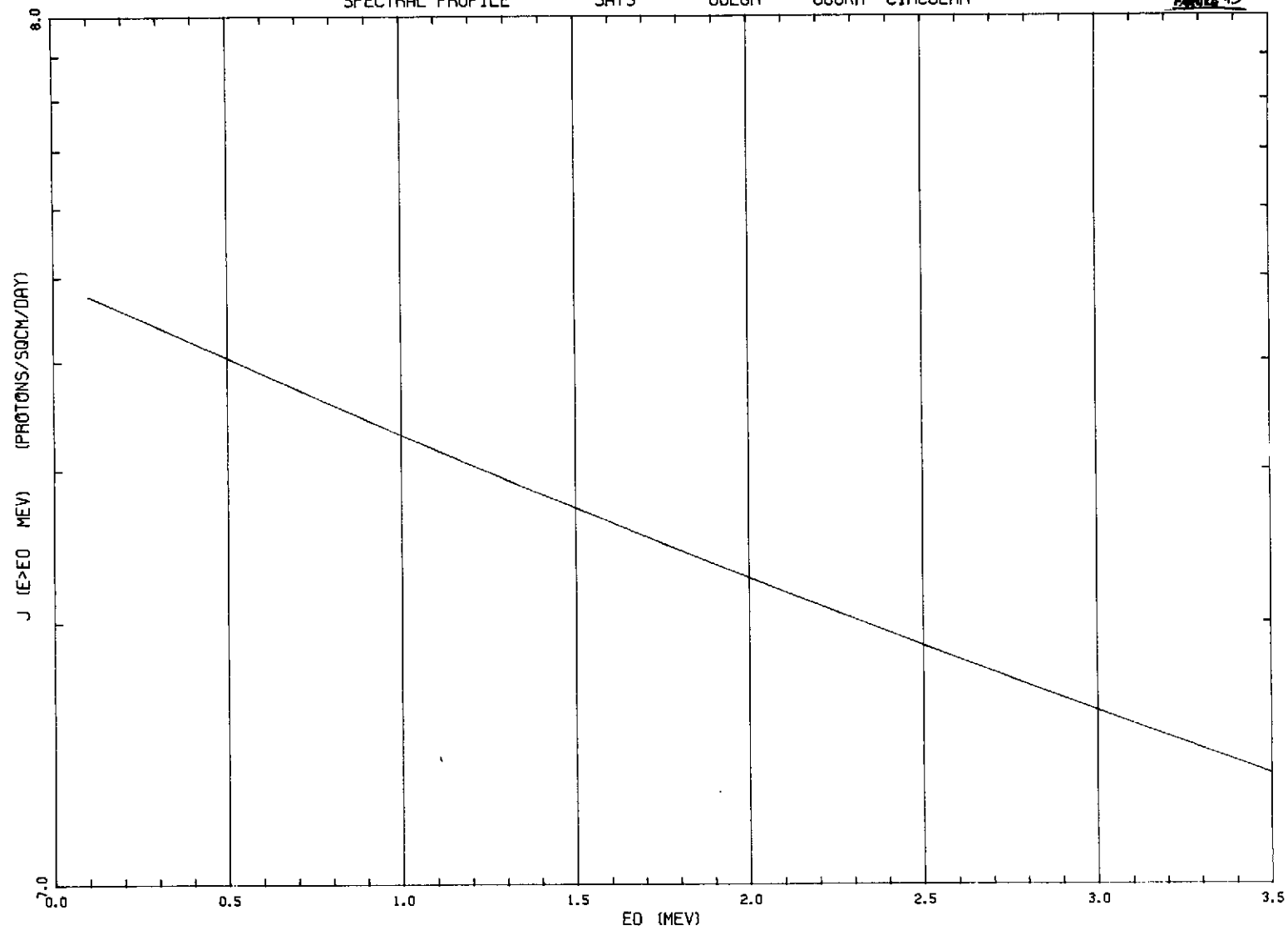
SPECTRAL PROFILE

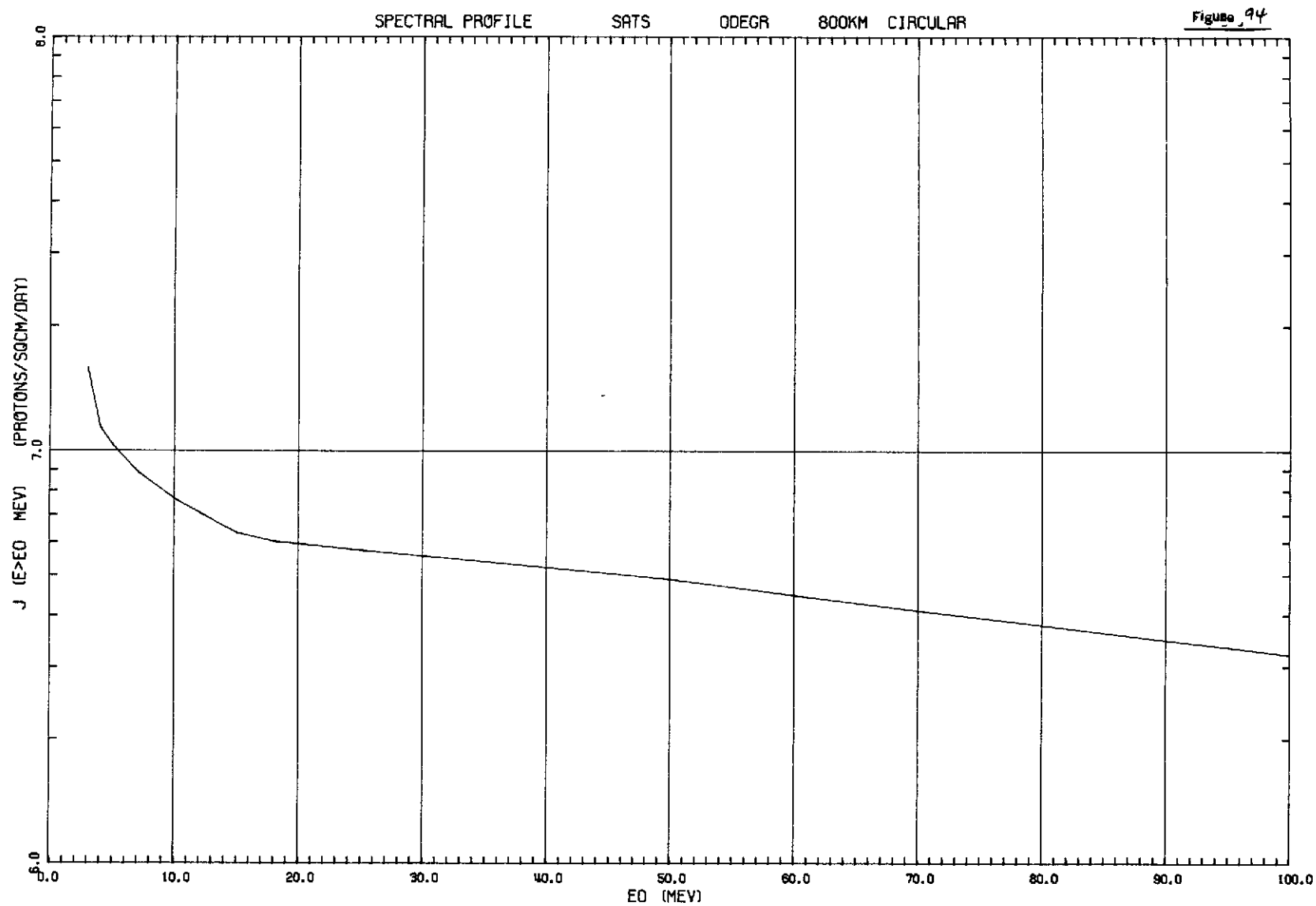
SATS

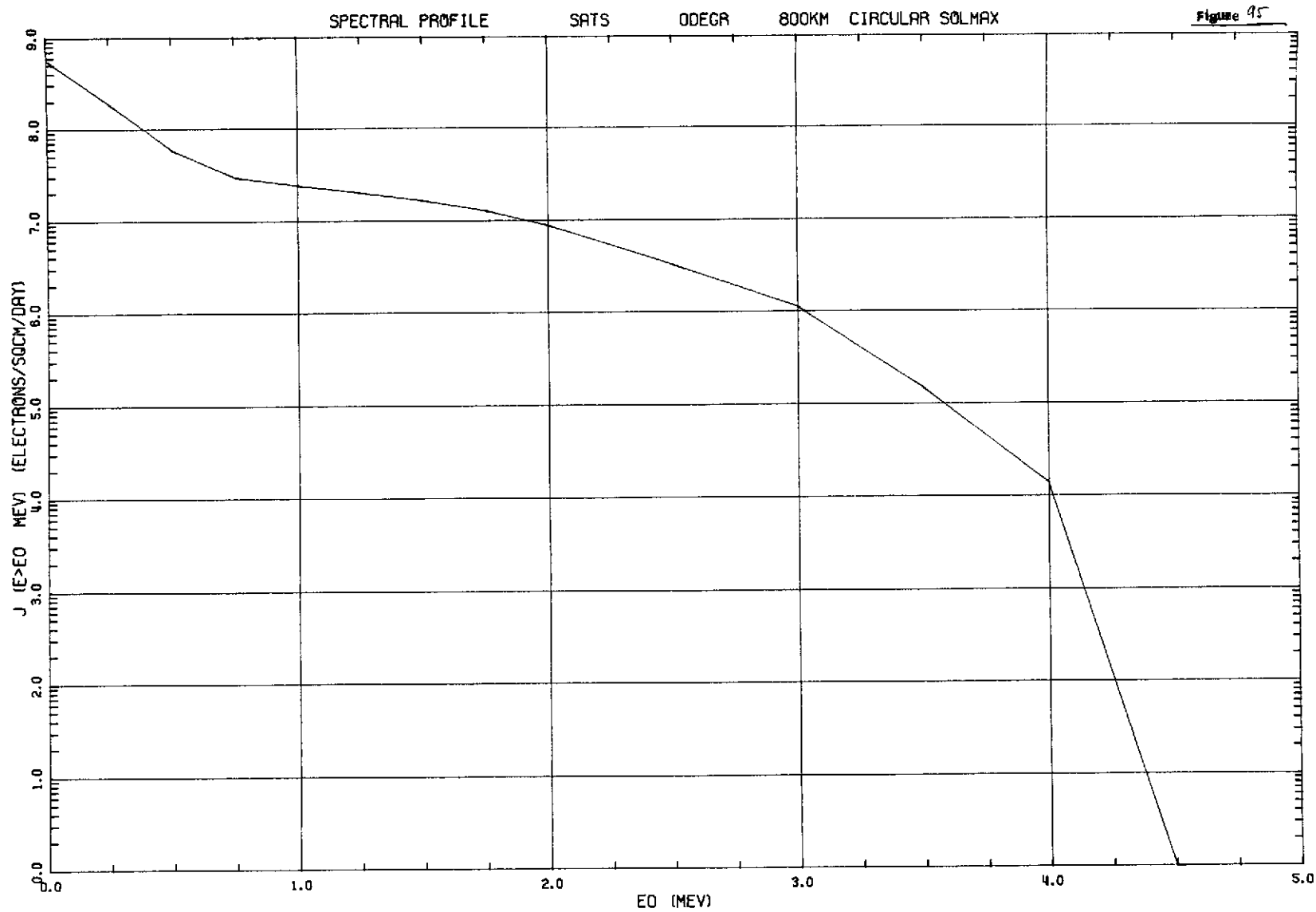
ODEGR

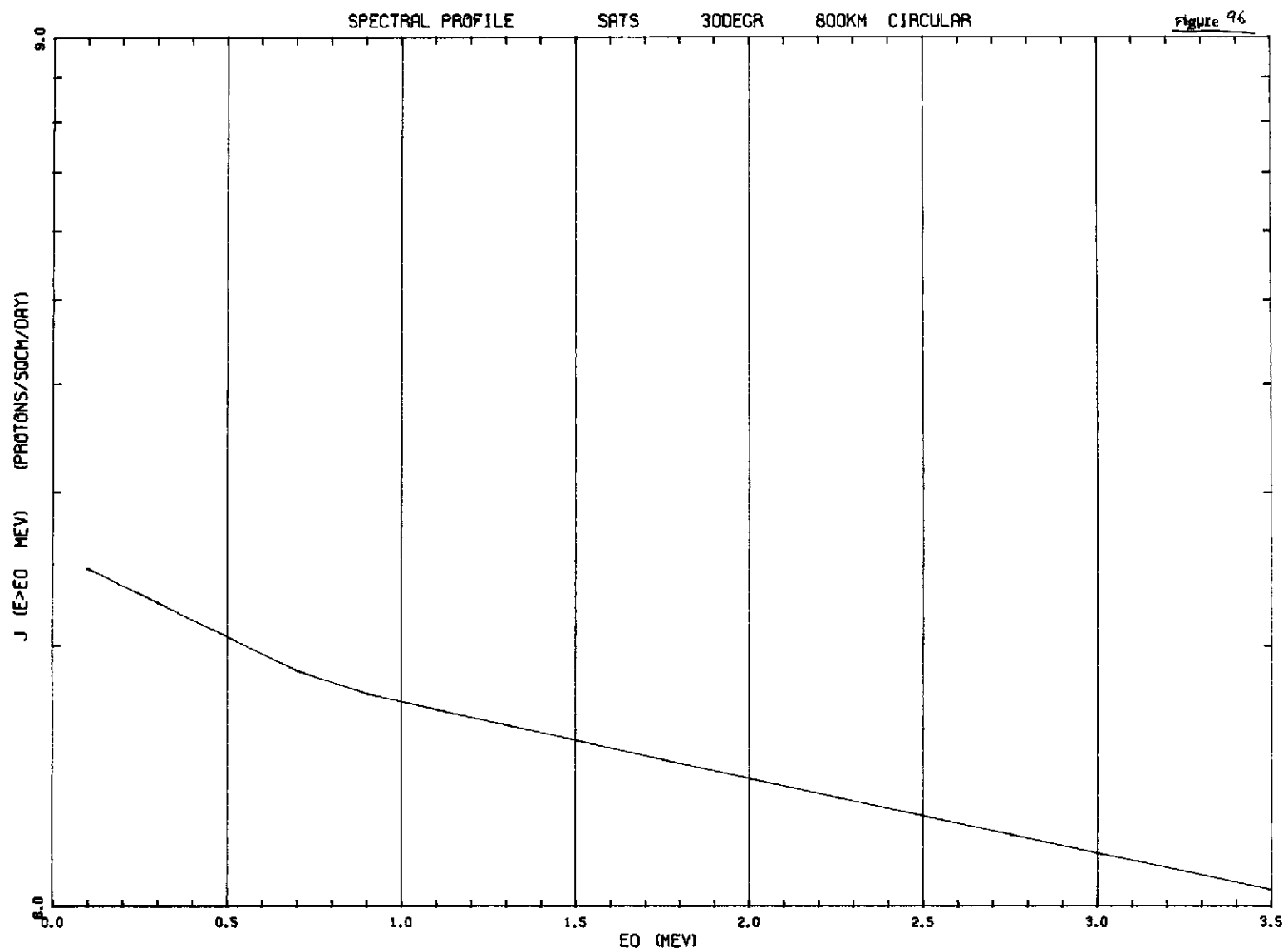
800KM CIRCULAR

Figure 92









SPECTRAL PROFILE

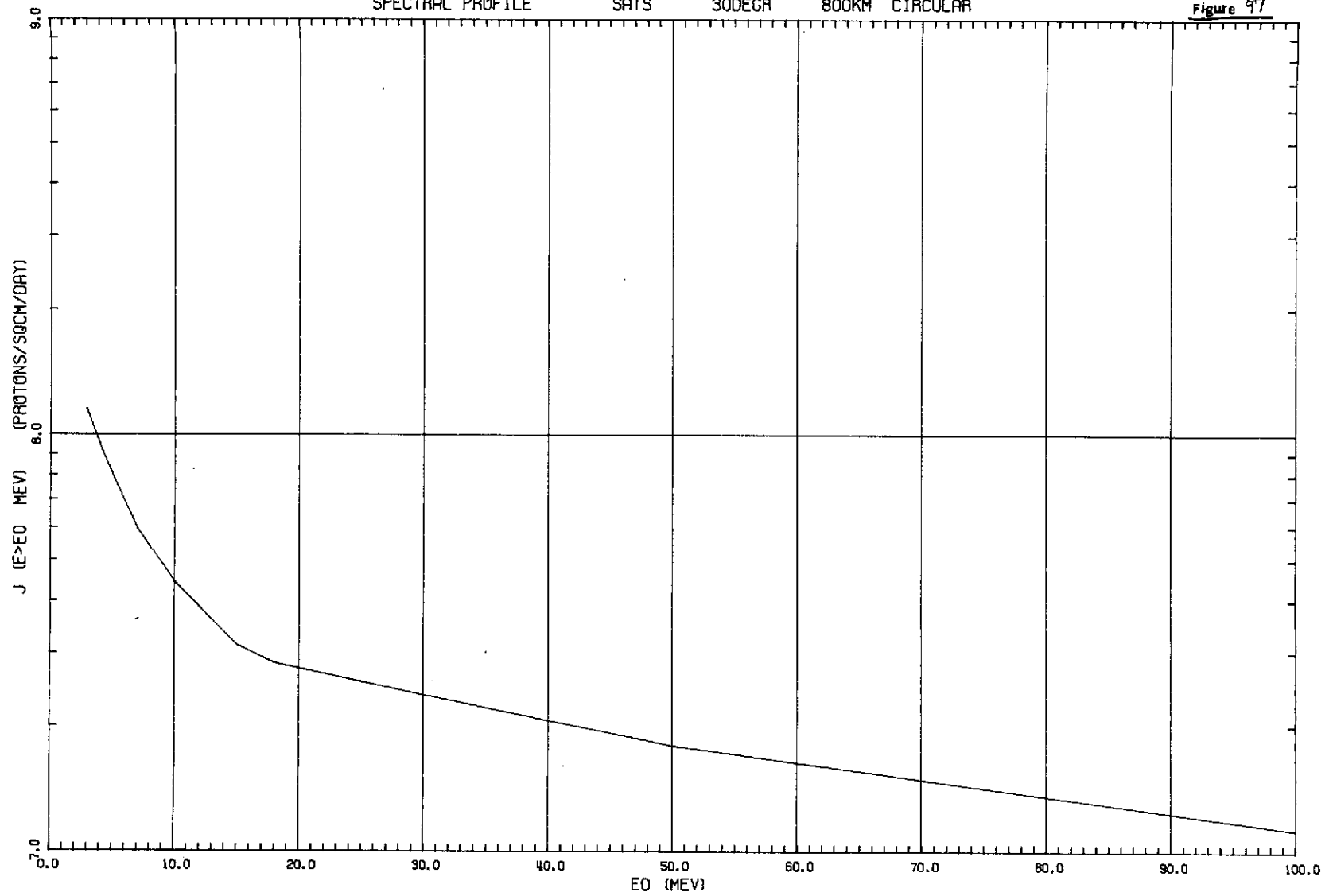
SATS

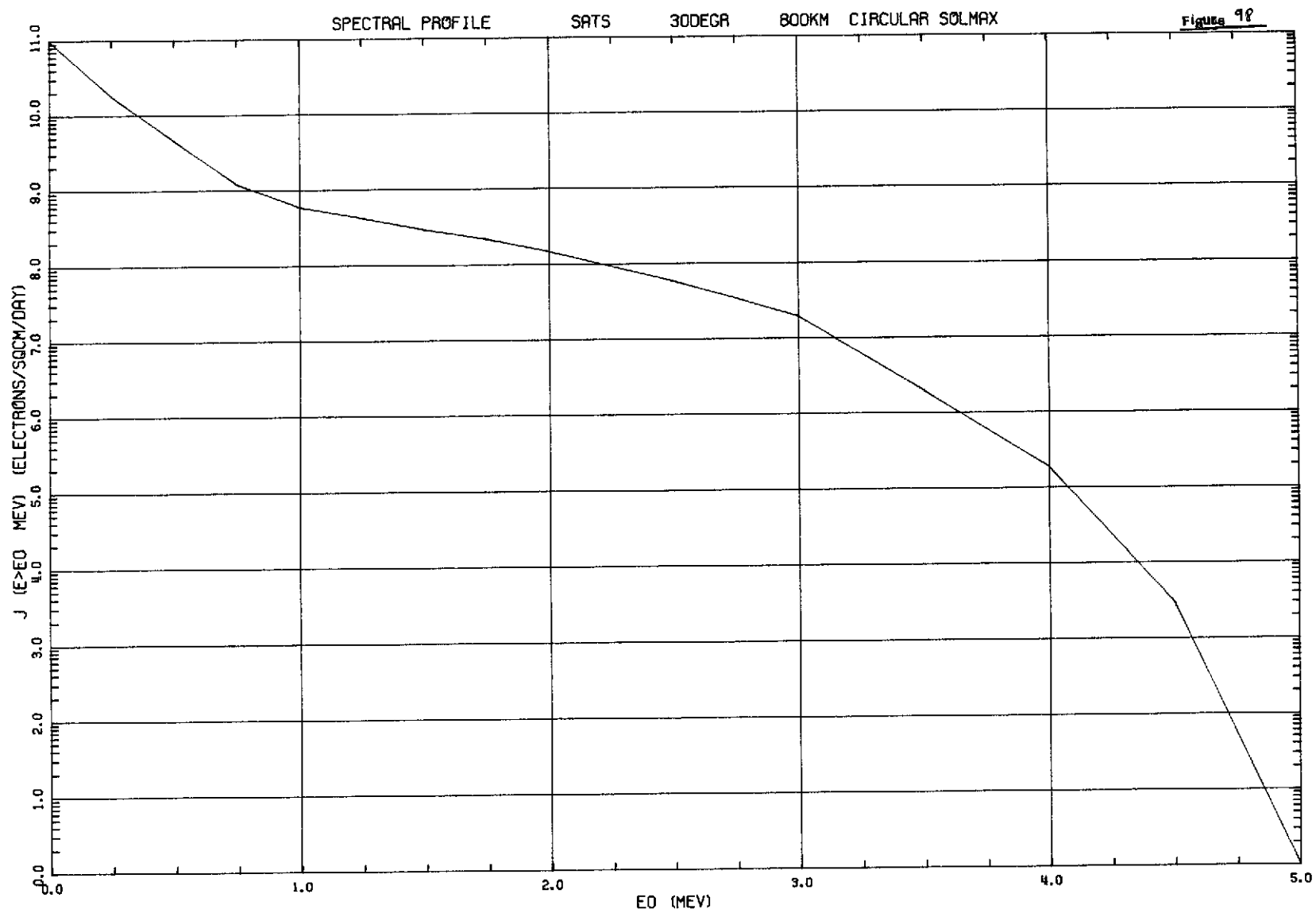
30DEGR

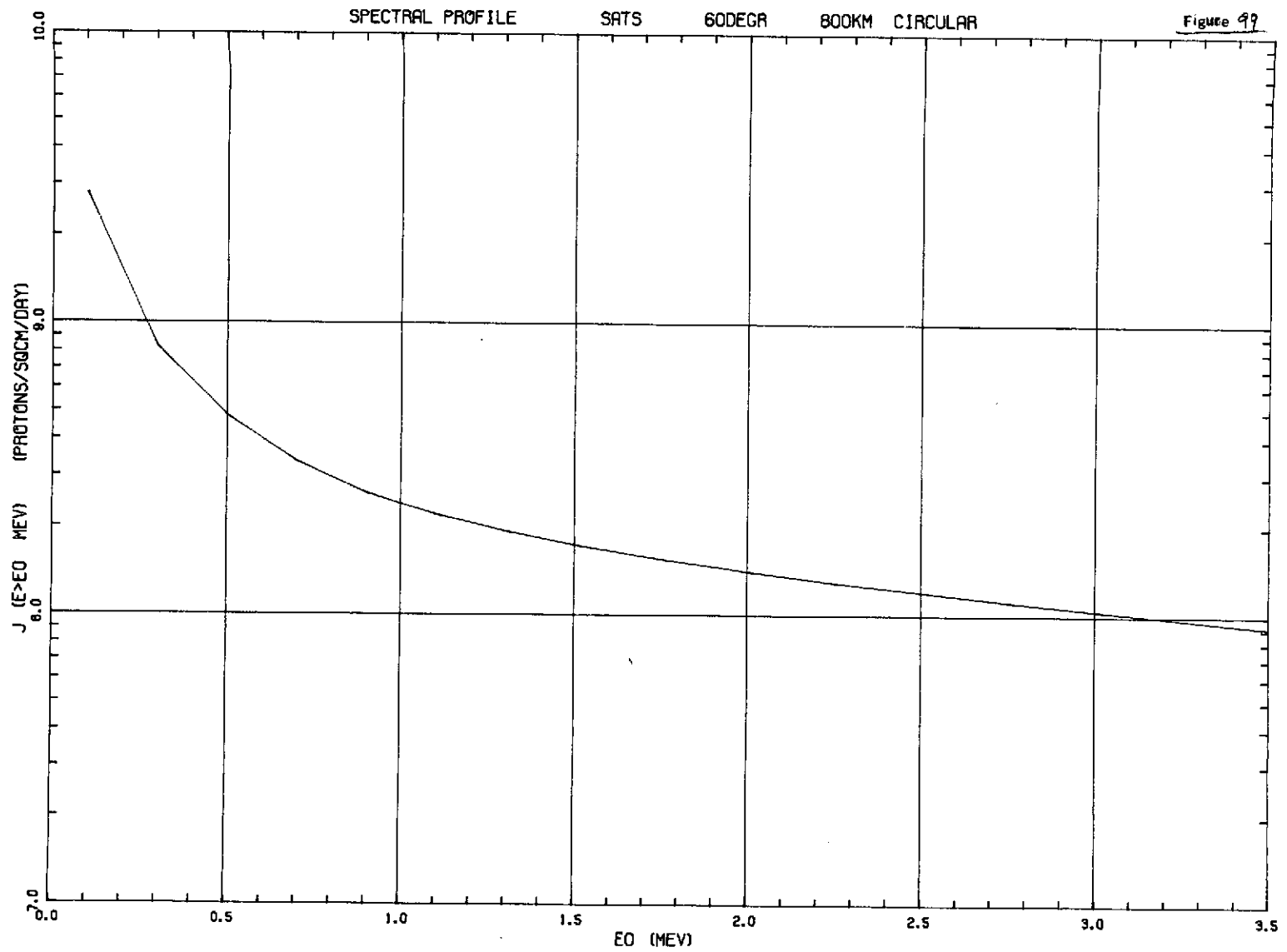
800KM

CIRCULAR

Figure 97







SPECTRAL PROFILE

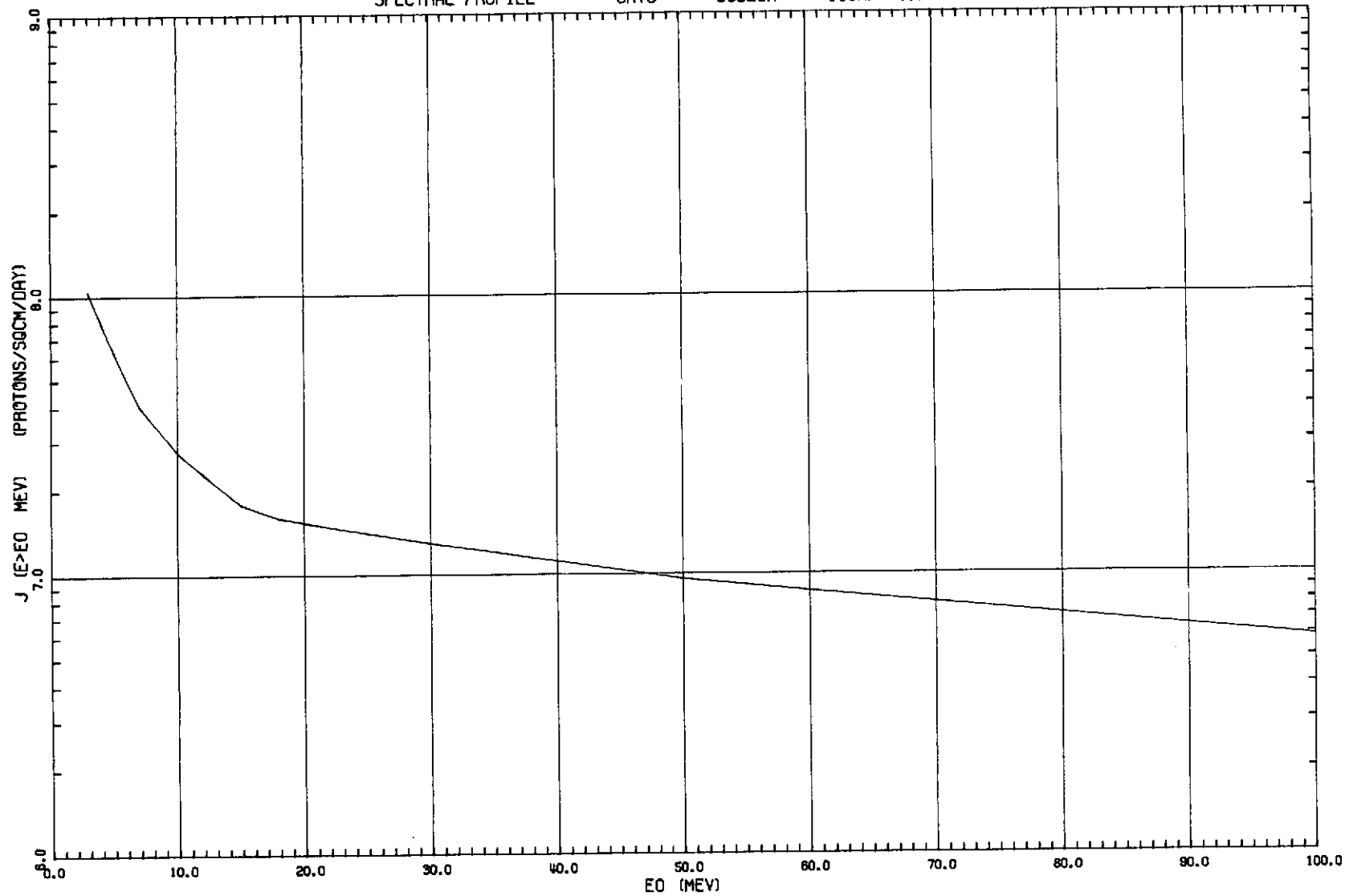
SATS

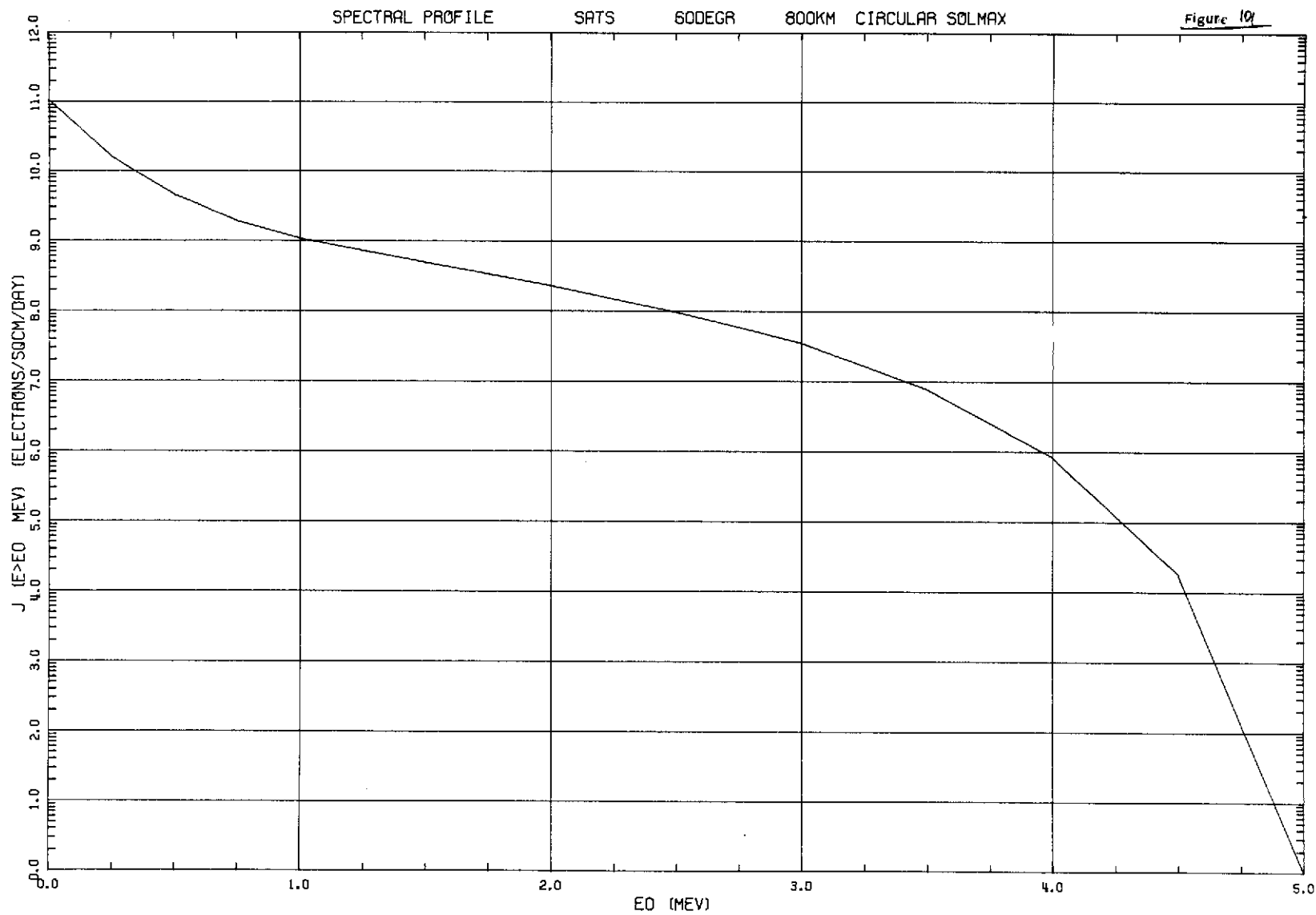
60DEGR

800KM

CIRCULAR

Figure 100





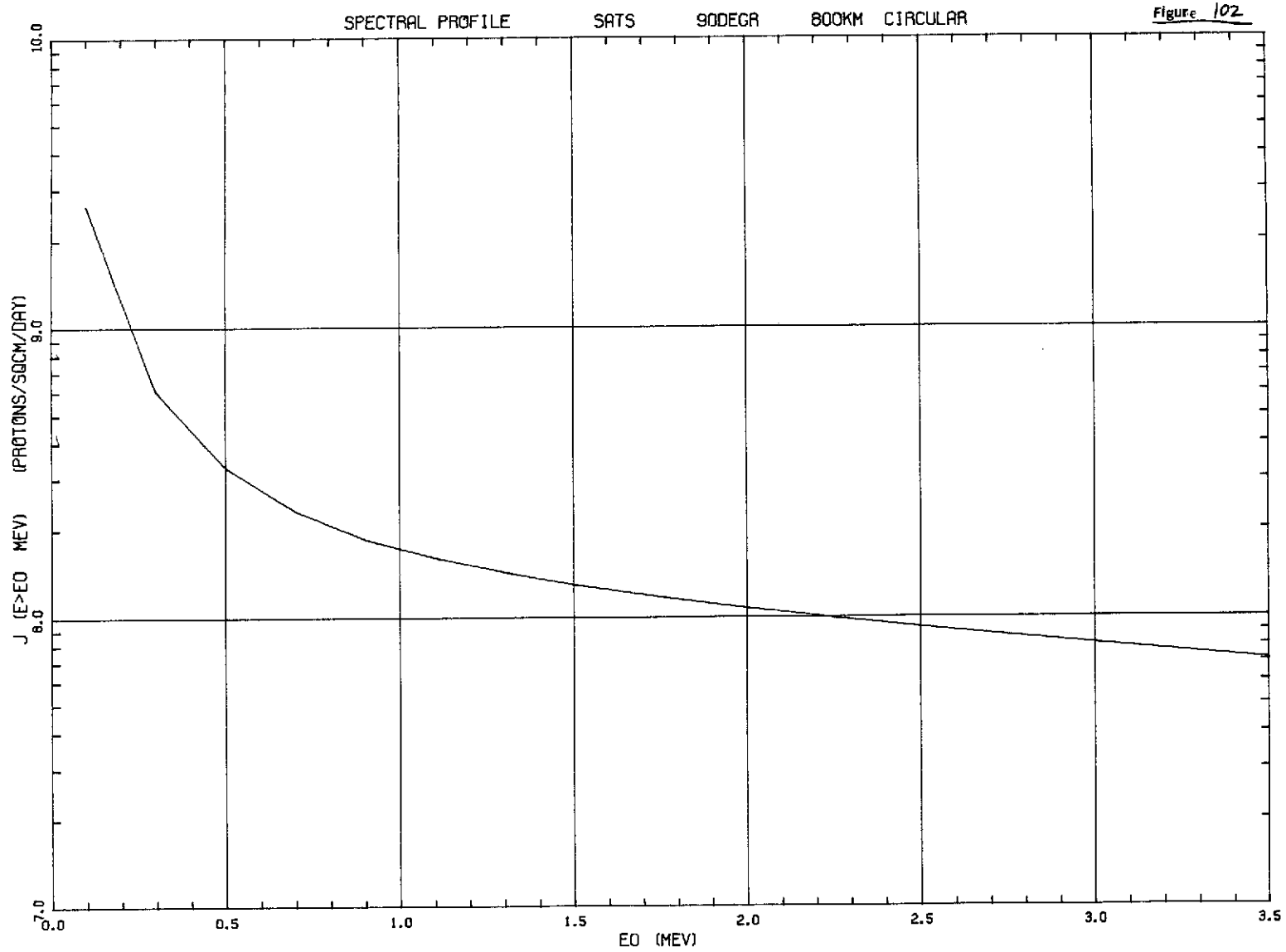
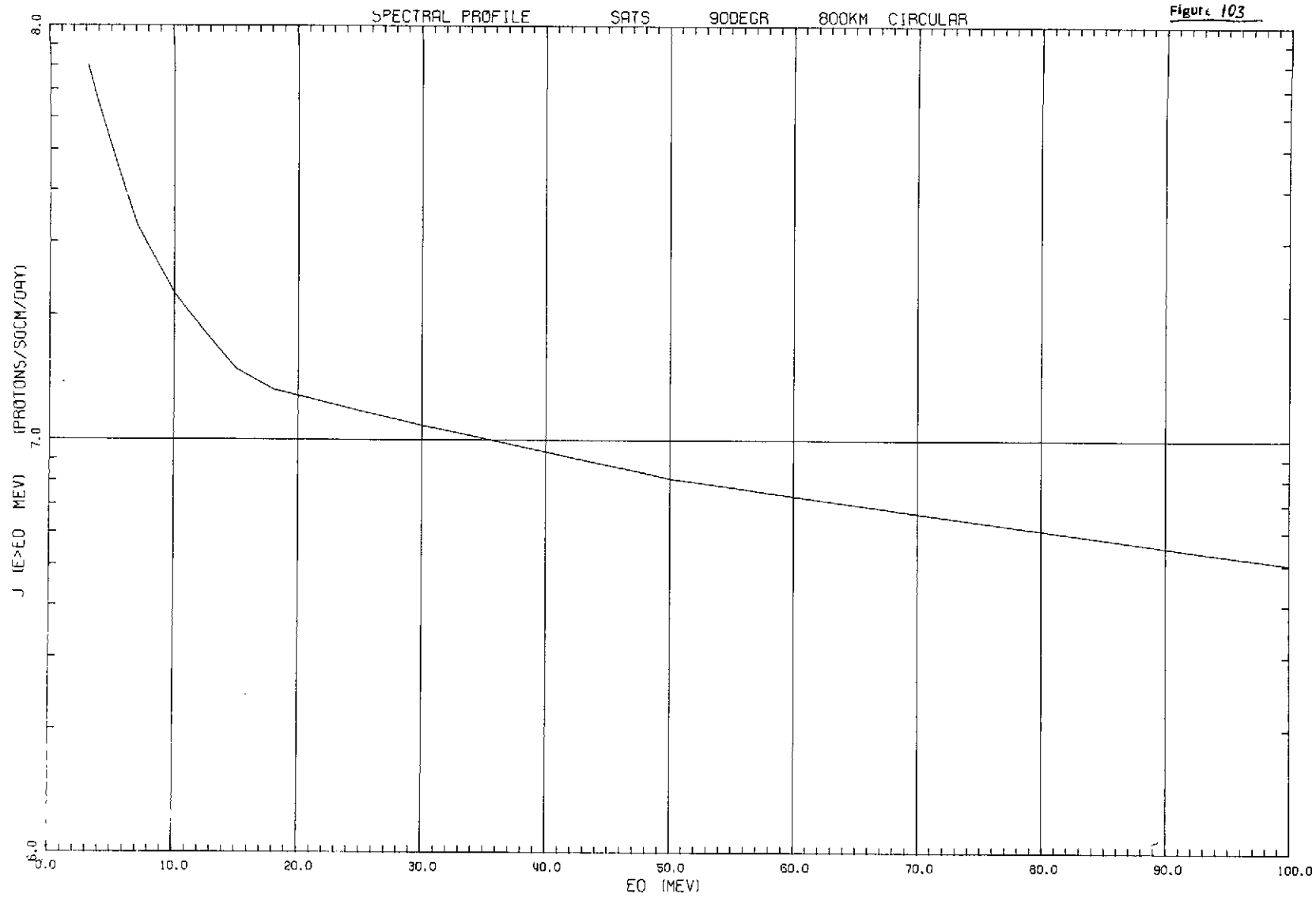
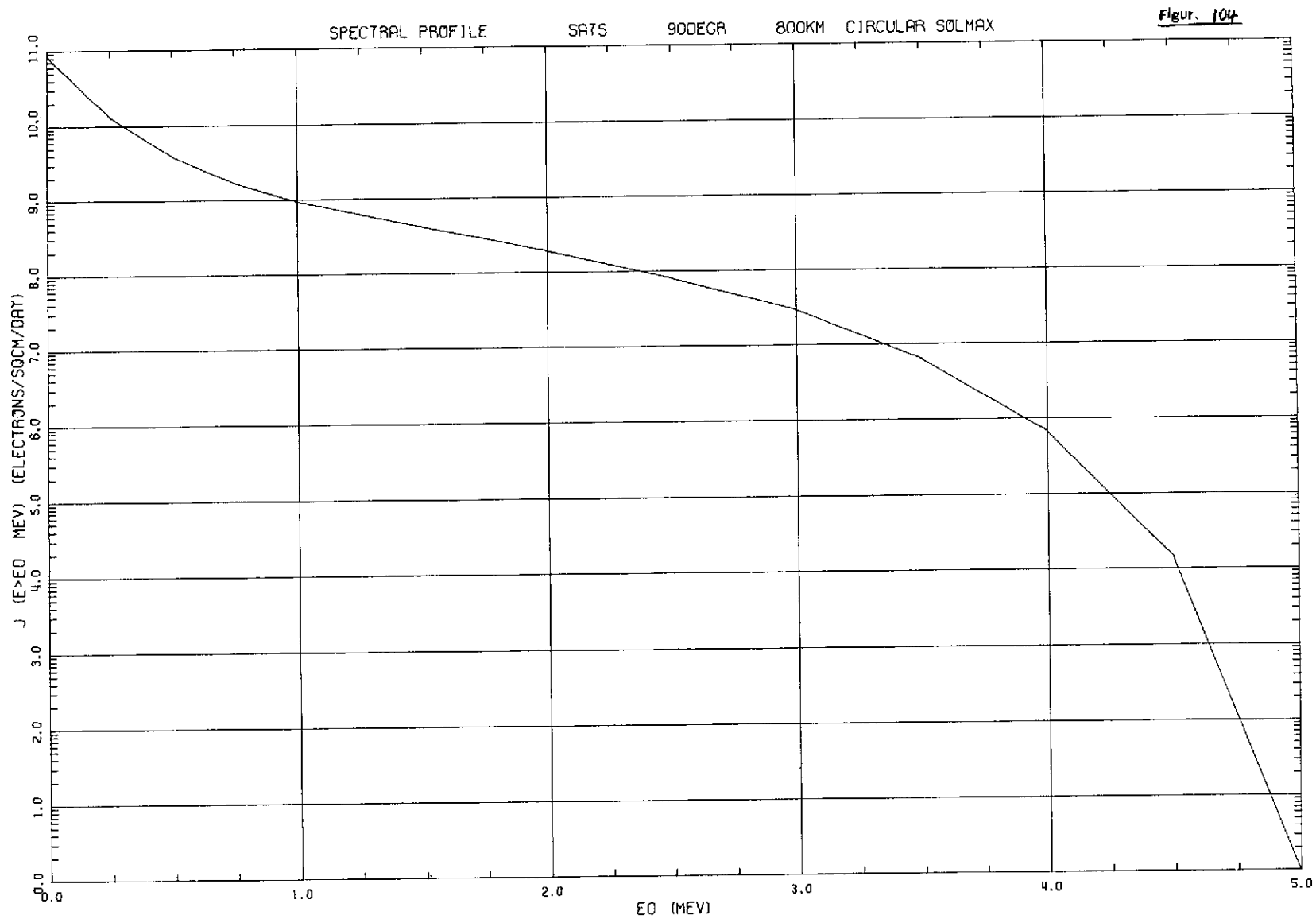
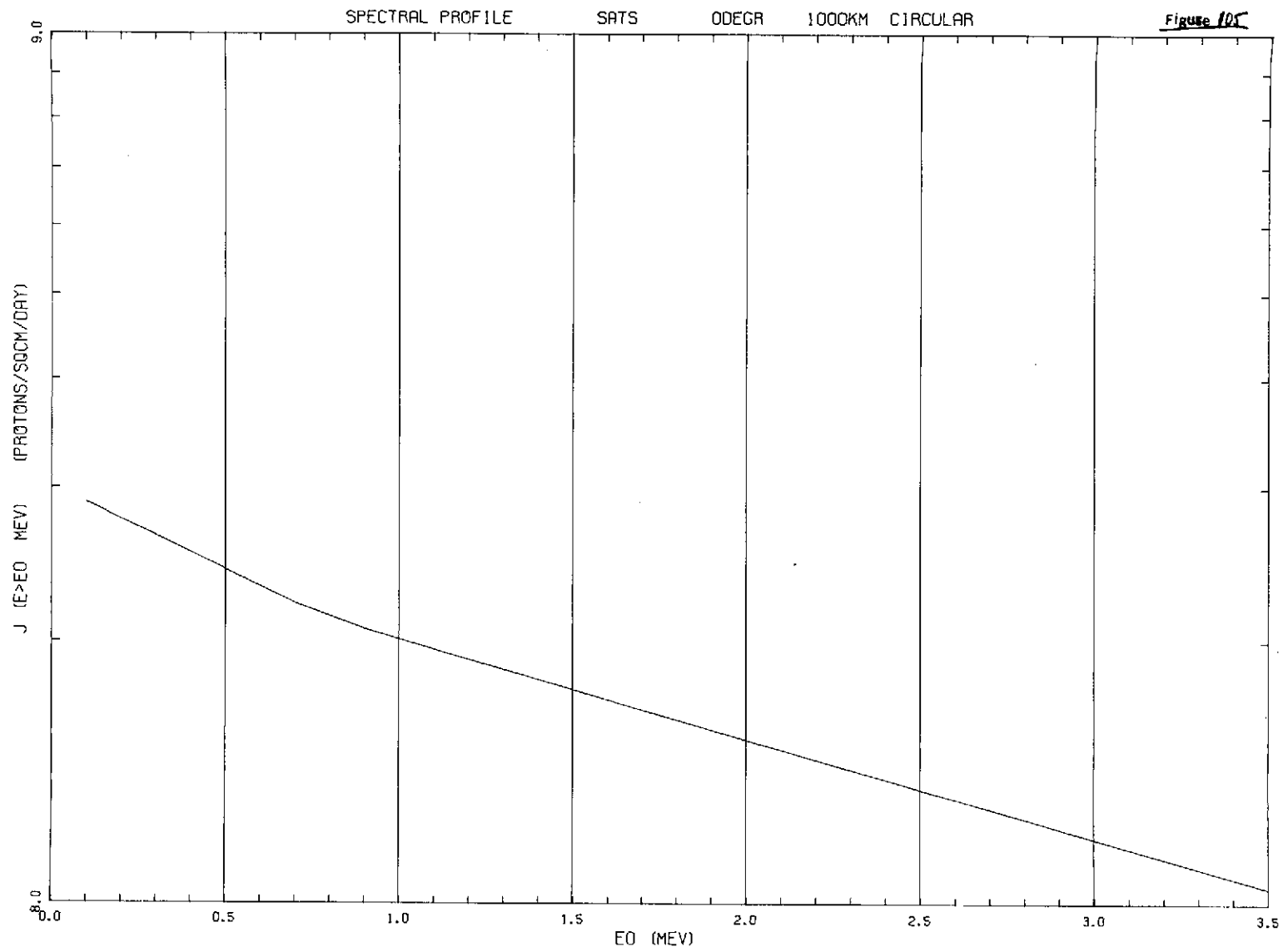
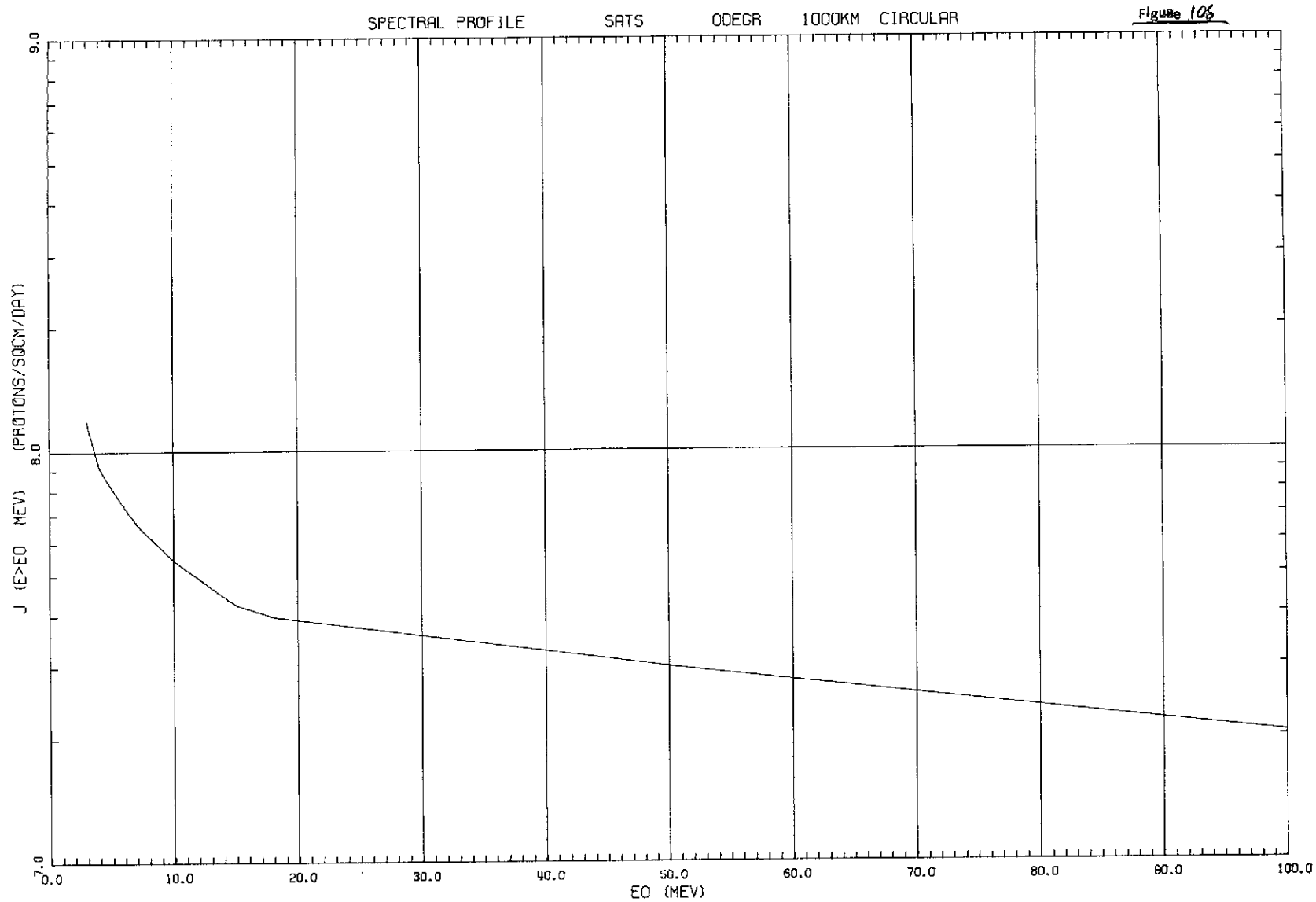


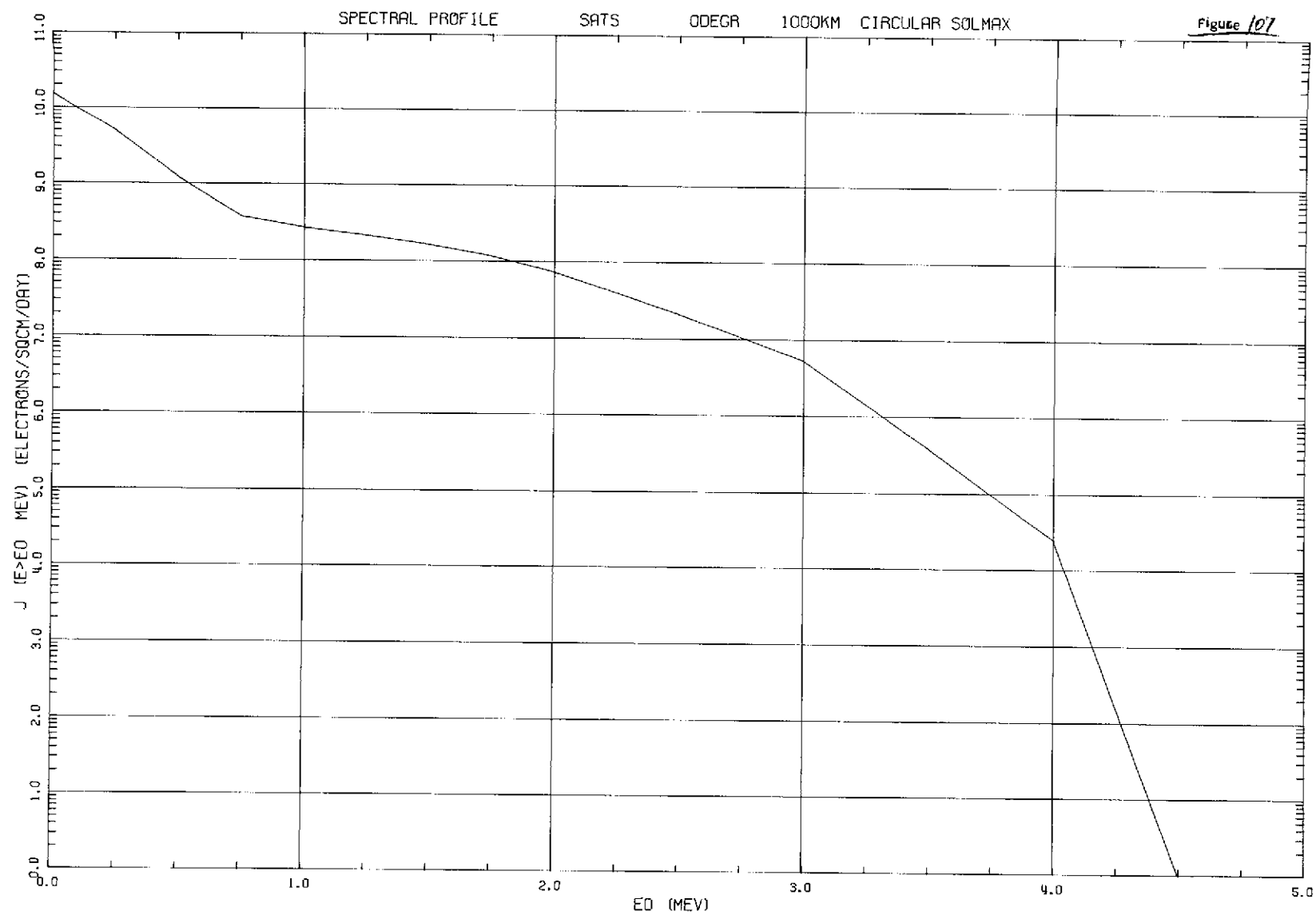
Figure 103

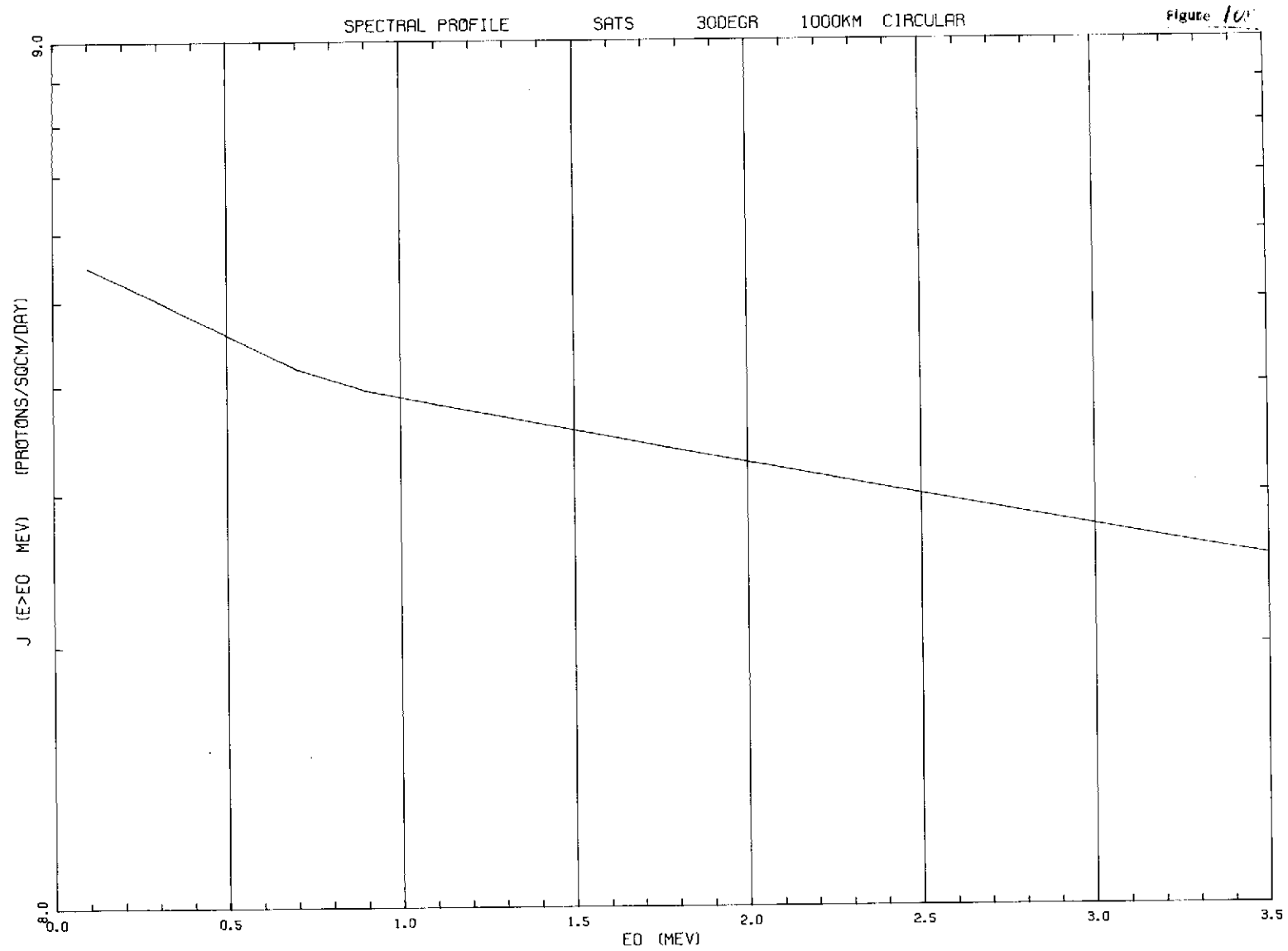


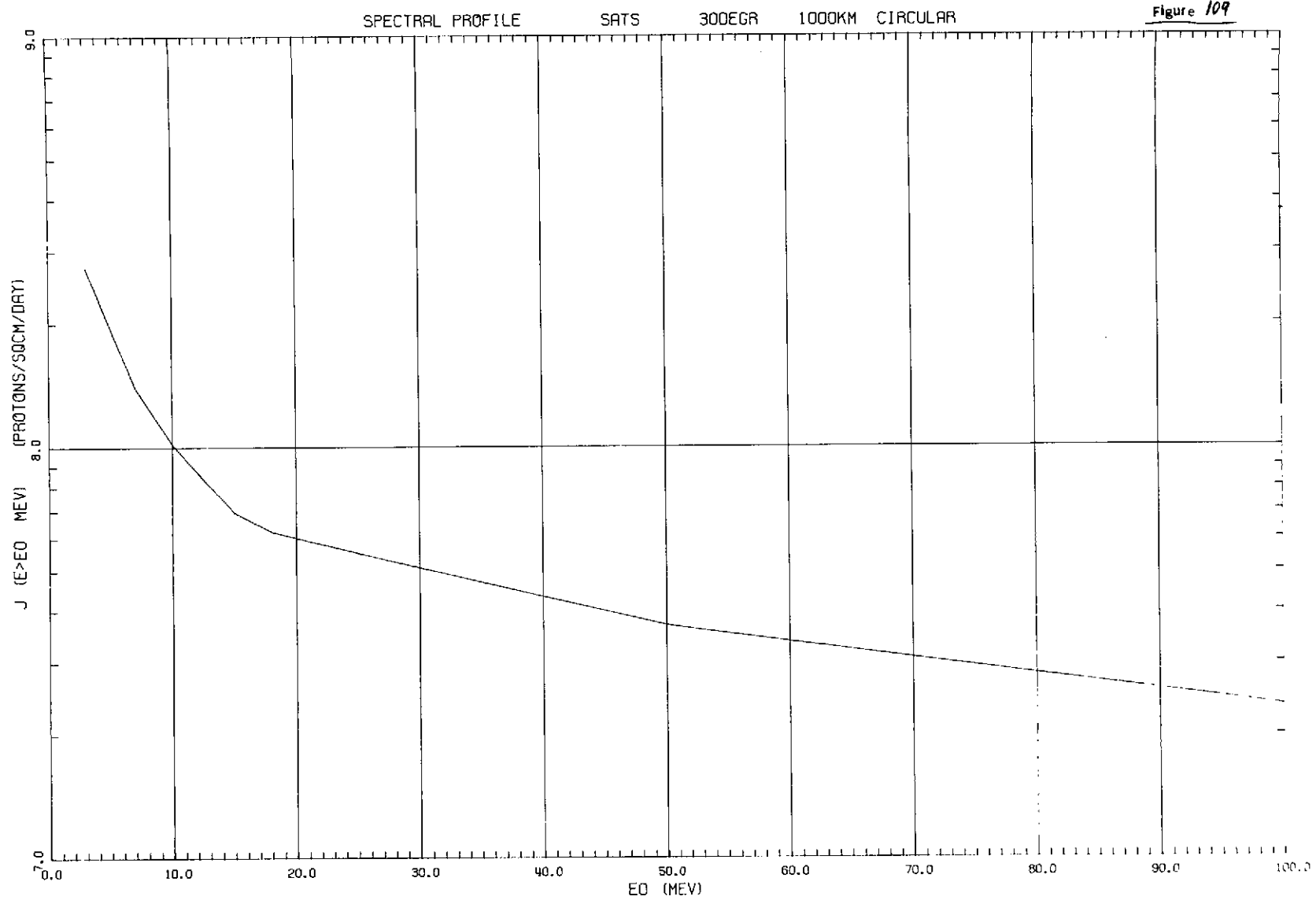












SPECTRAL PROFILE

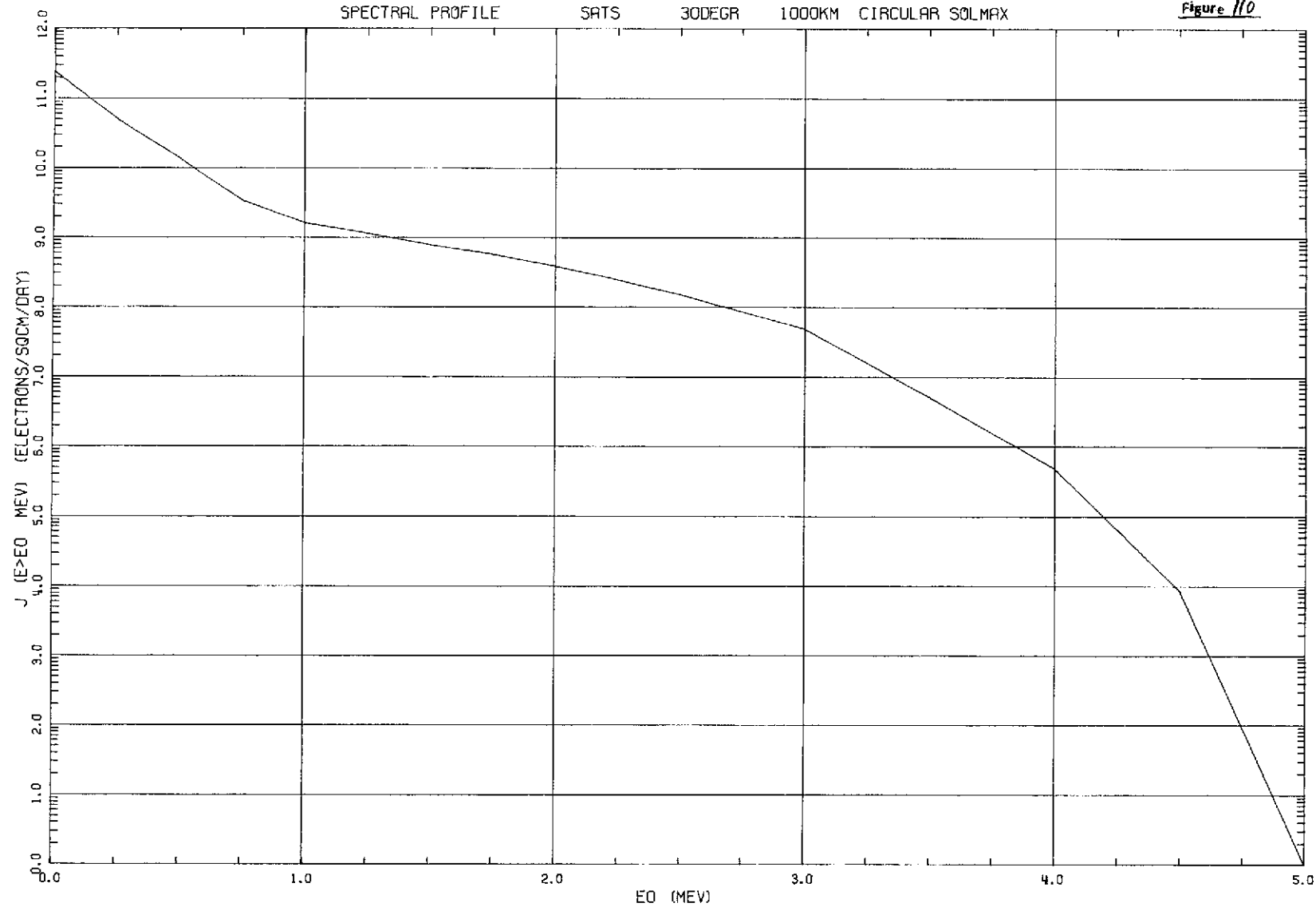
SATS

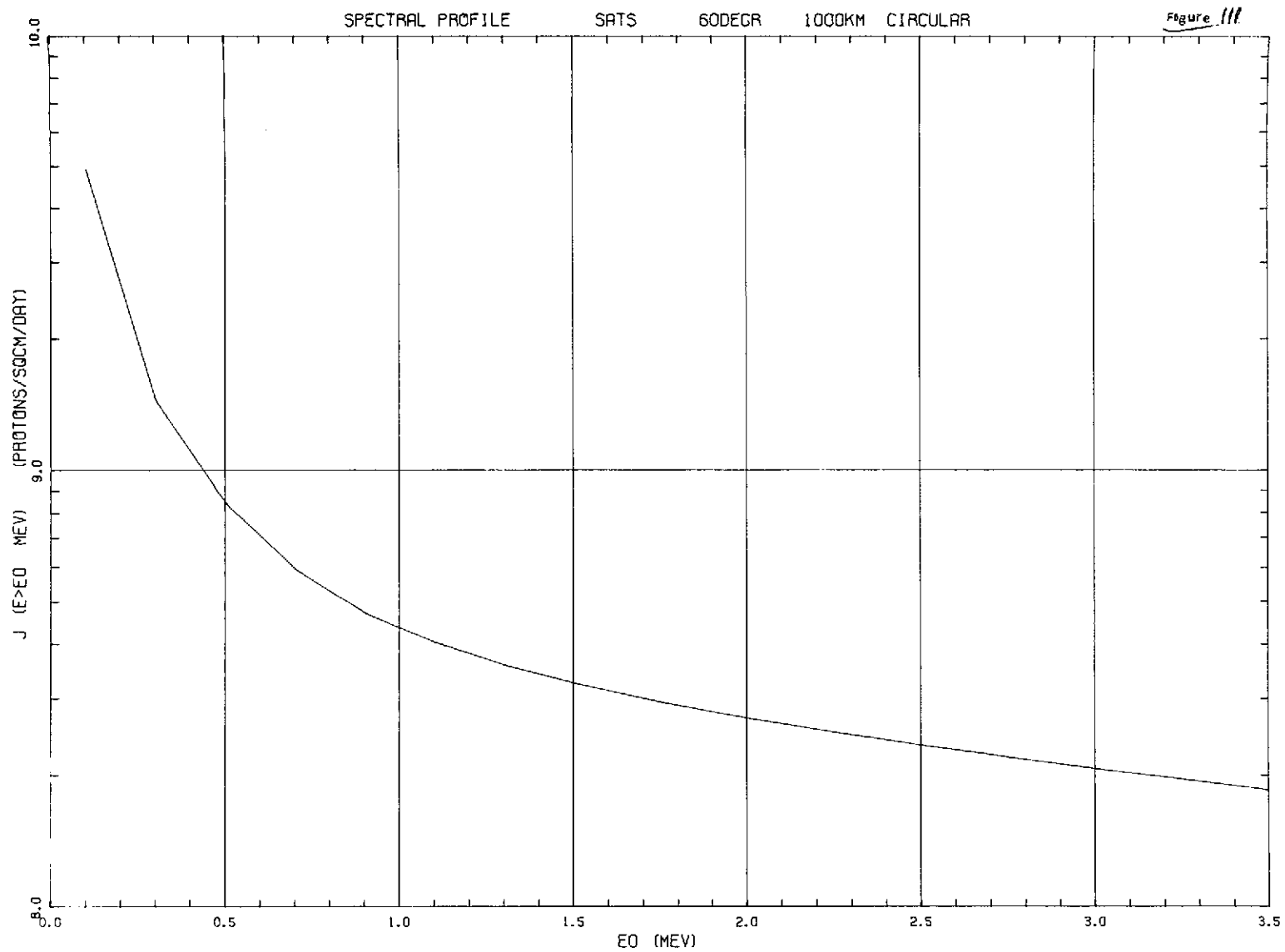
30DEGR

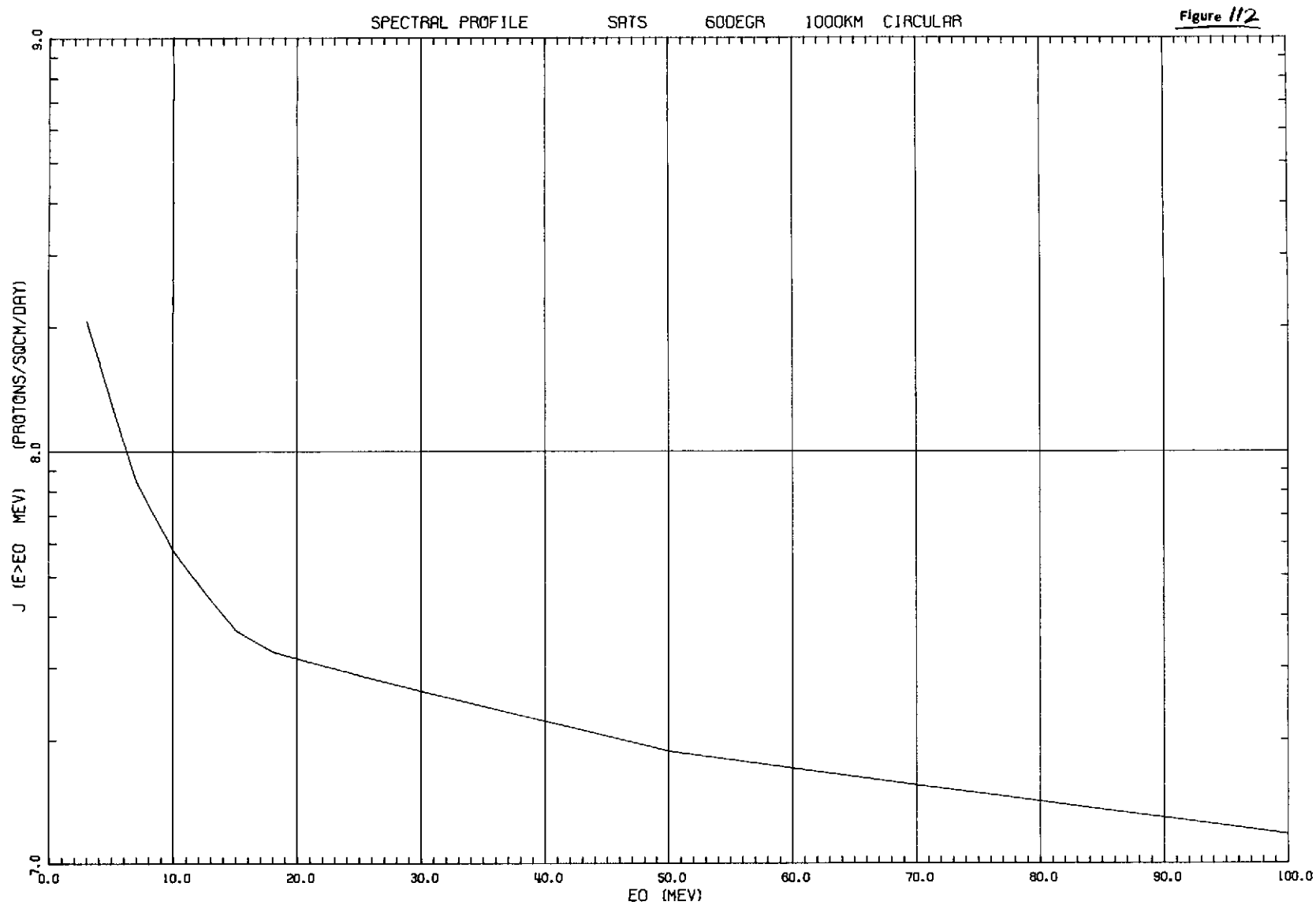
1000KM

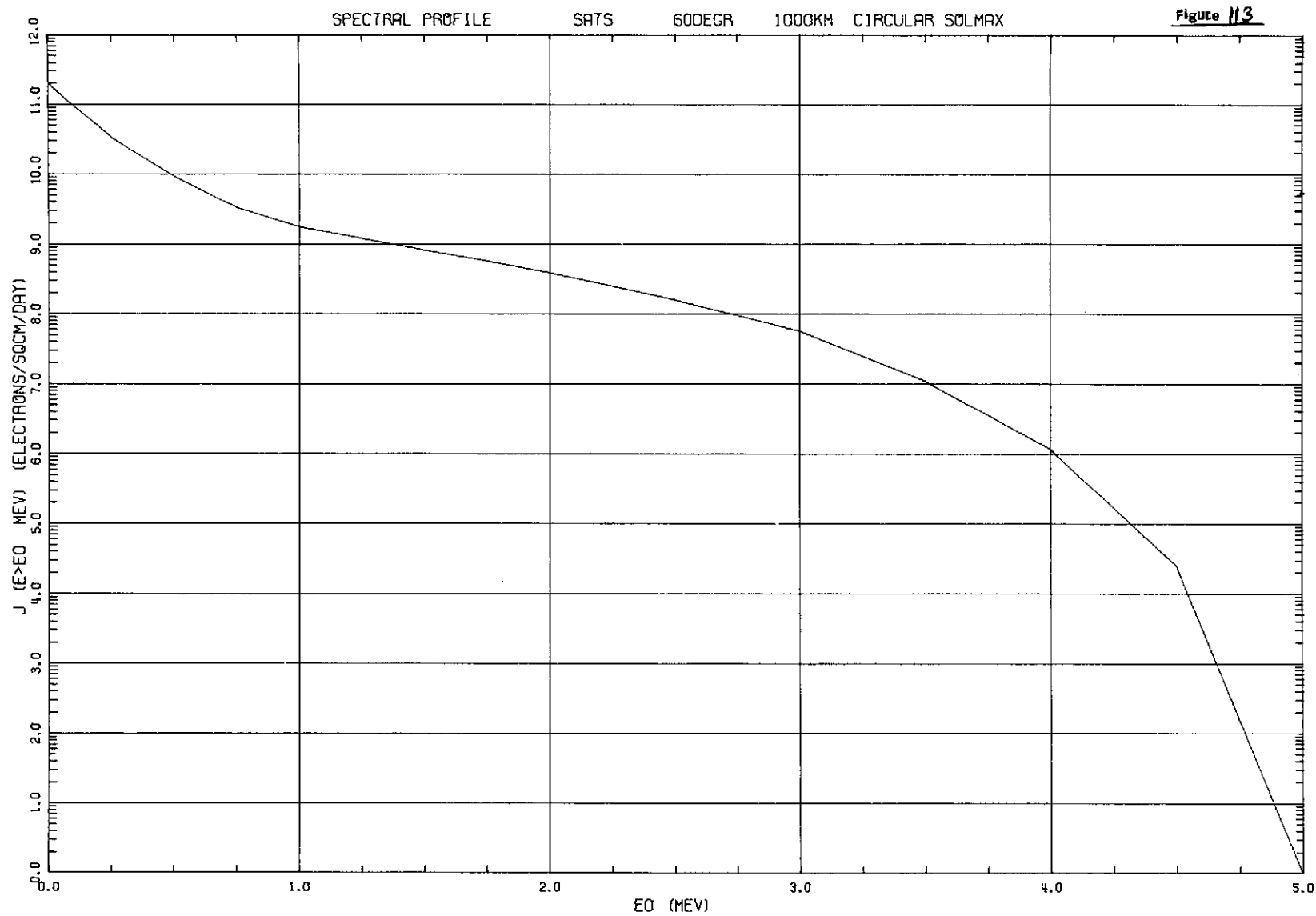
CIRCULAR SOLMAX

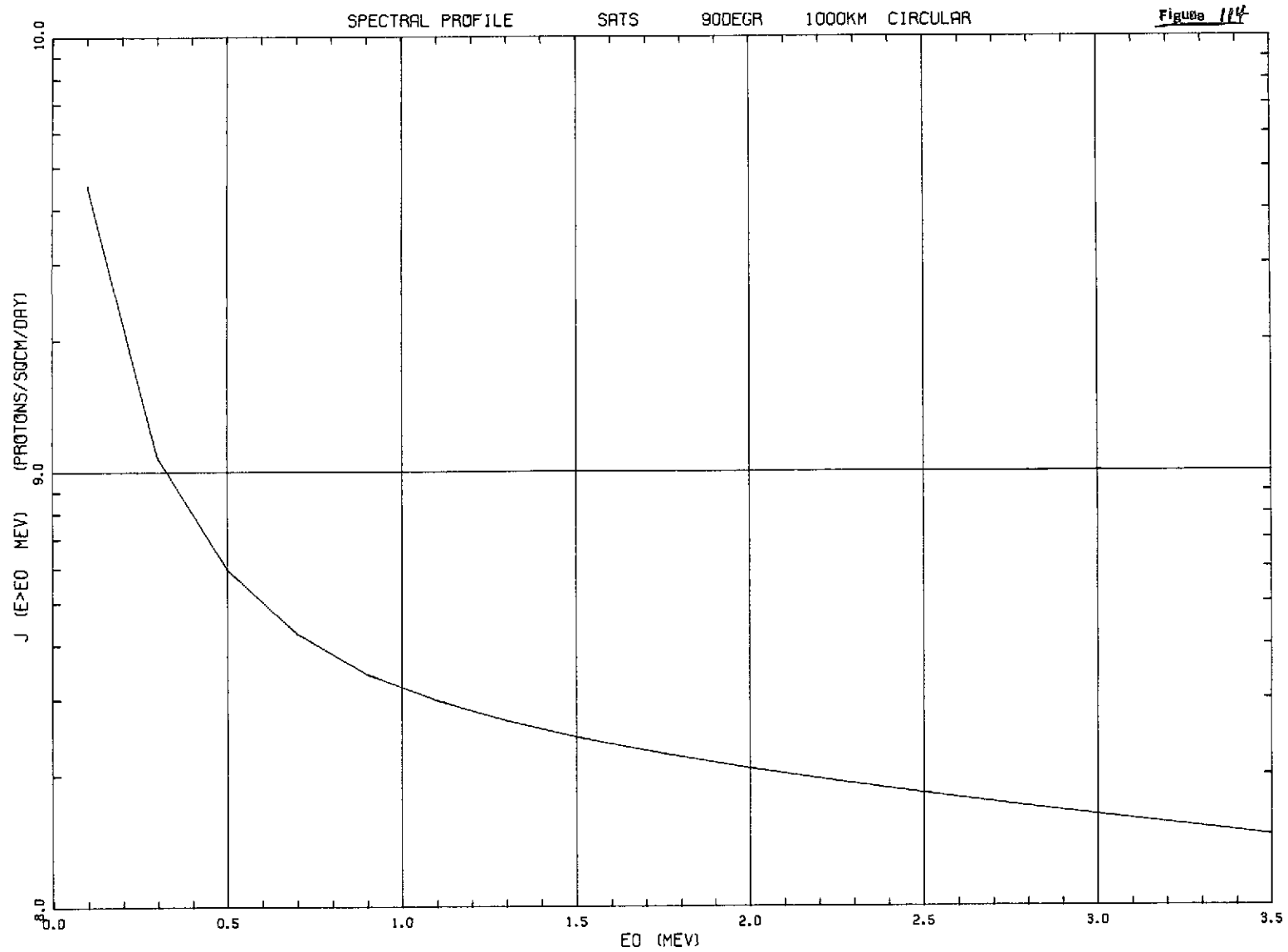
Figure 110











SPECTRAL PROFILE

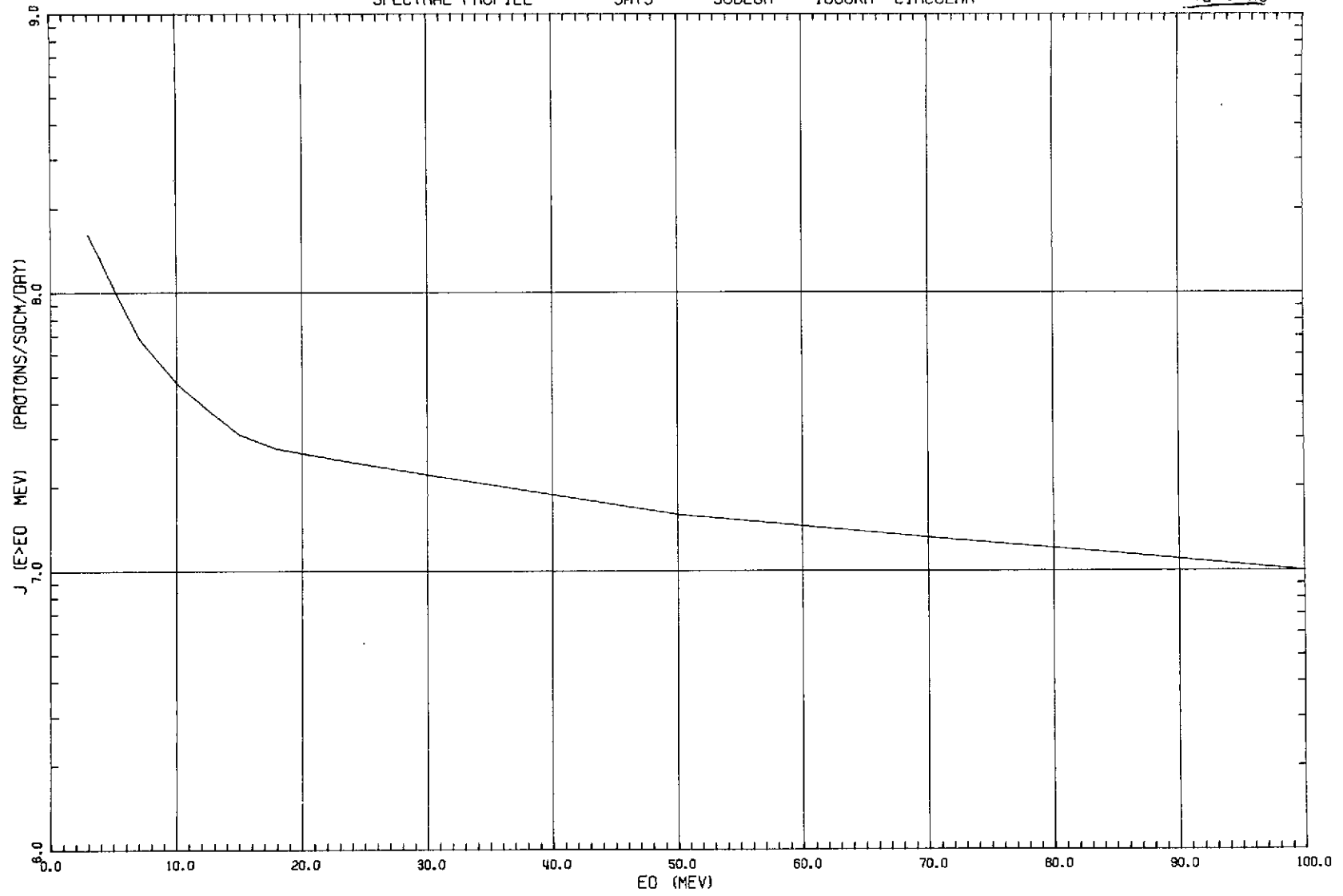
SATS

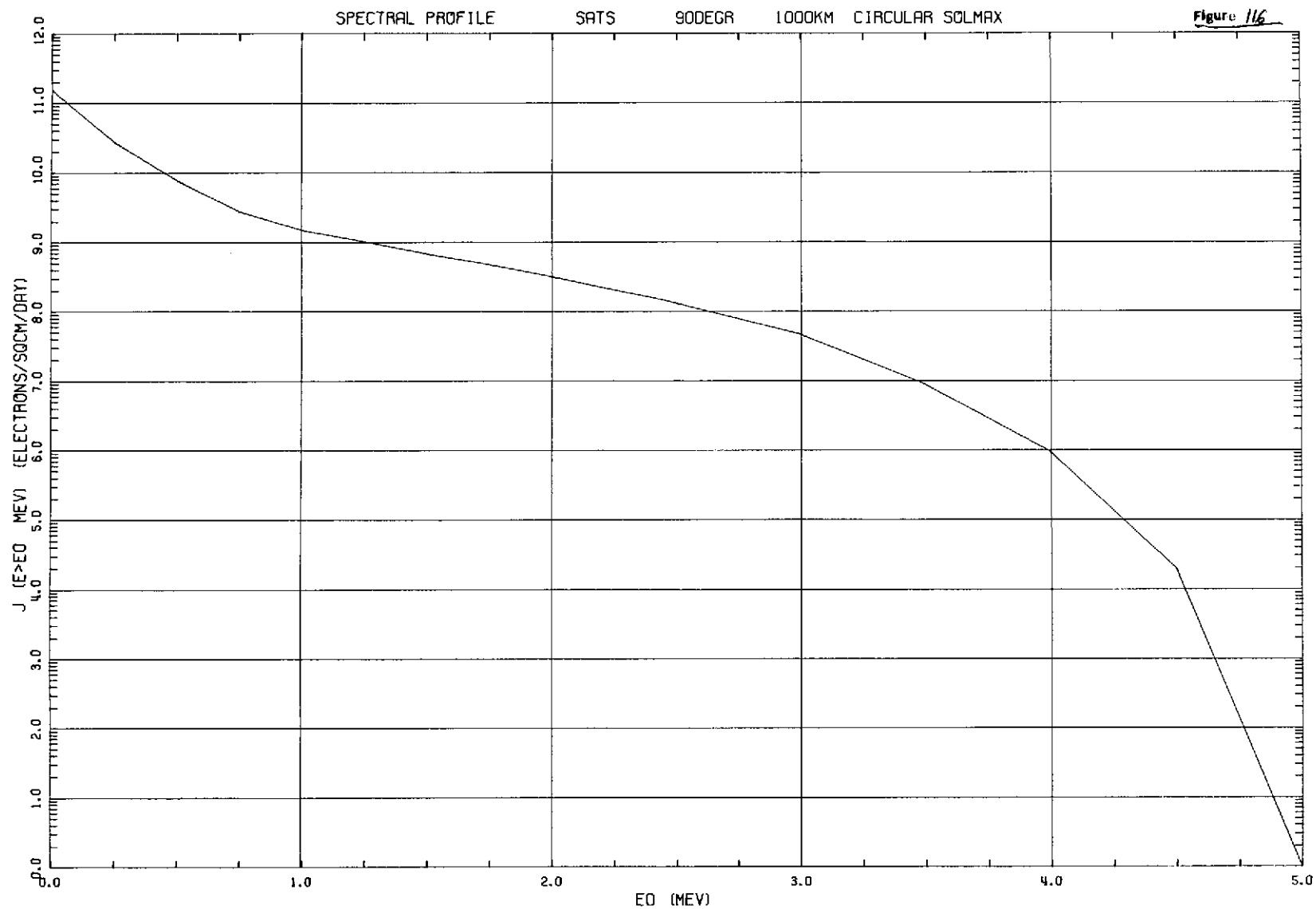
90DEGR

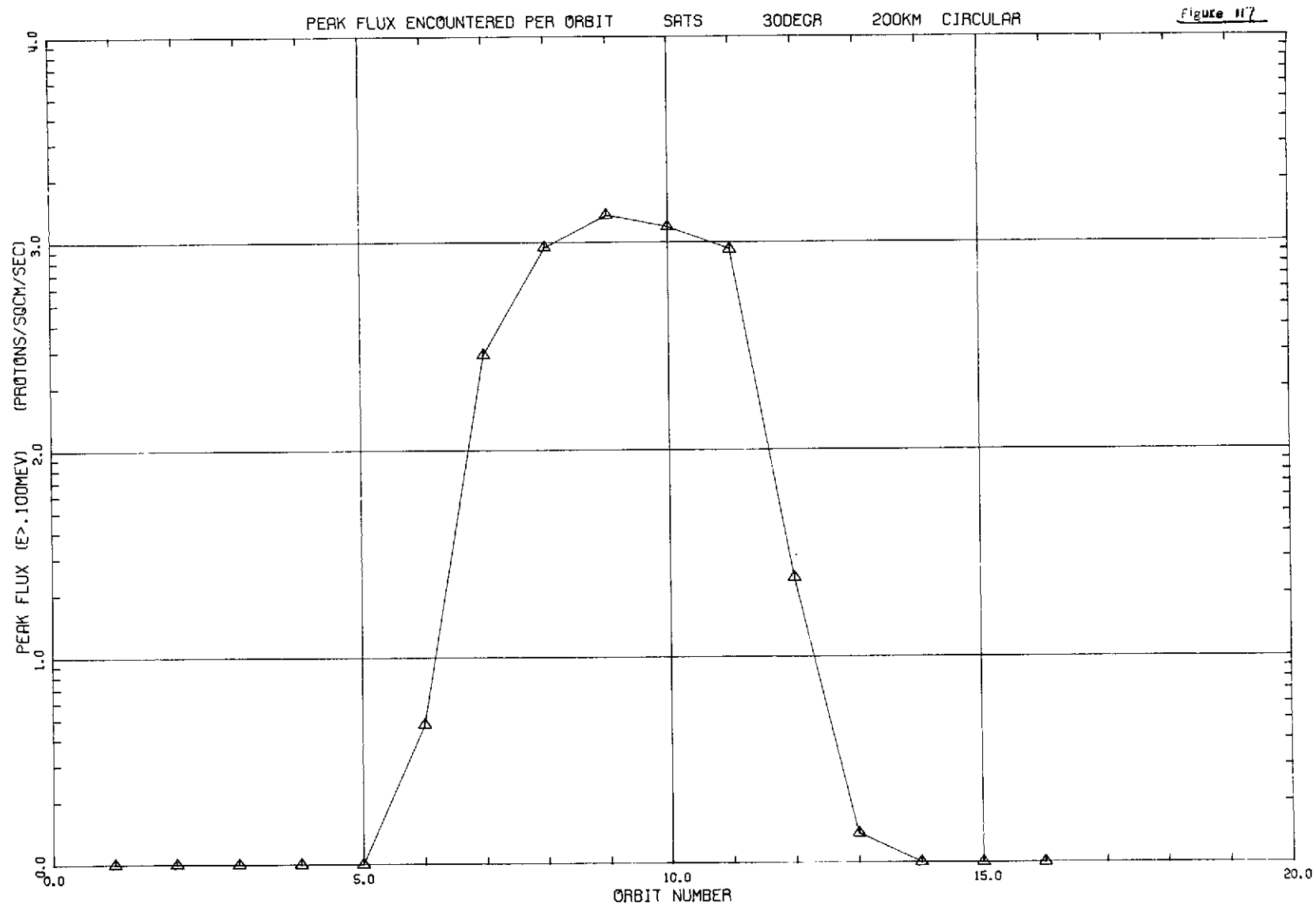
1000KM

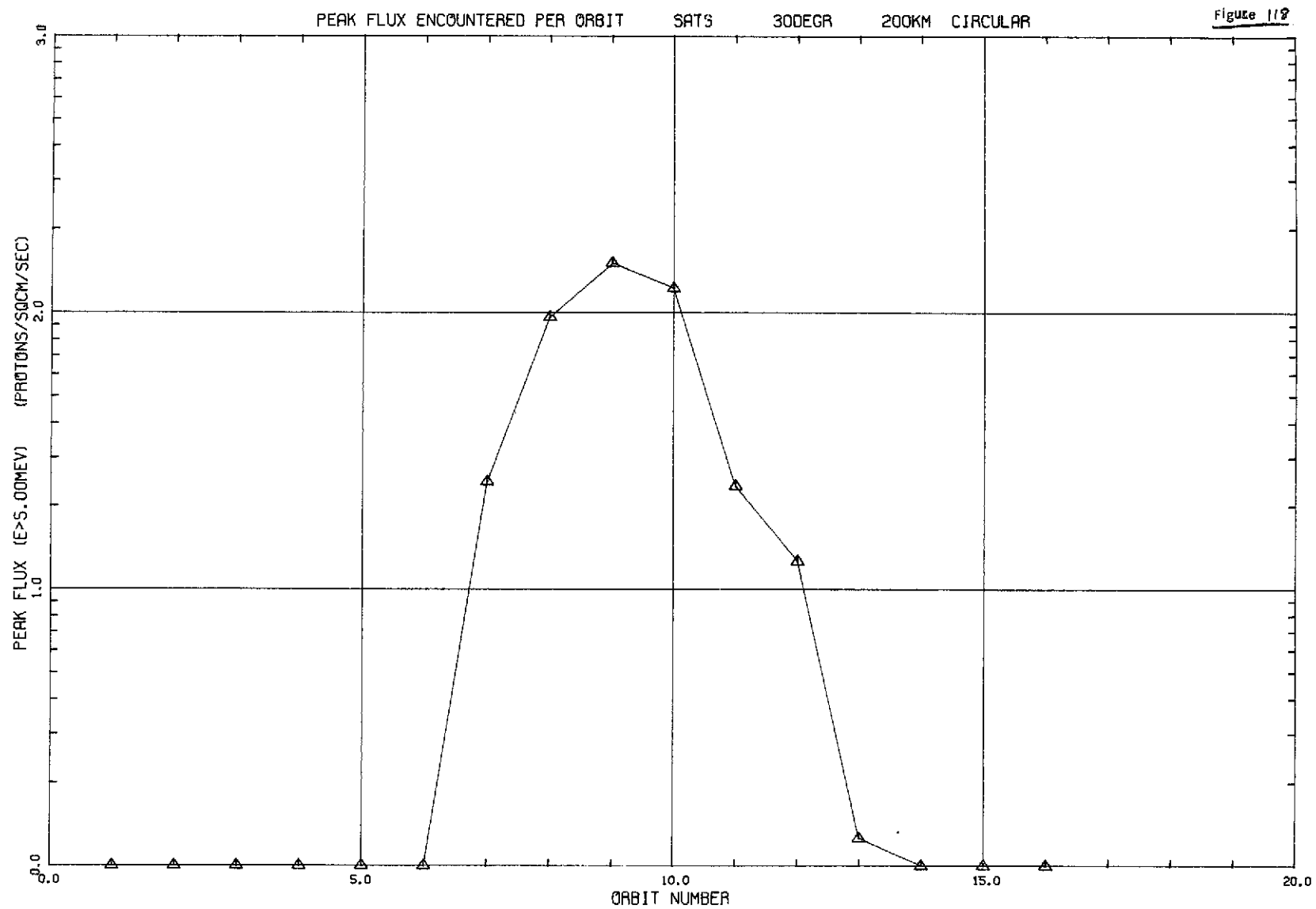
CIRCULAR

Figure 115









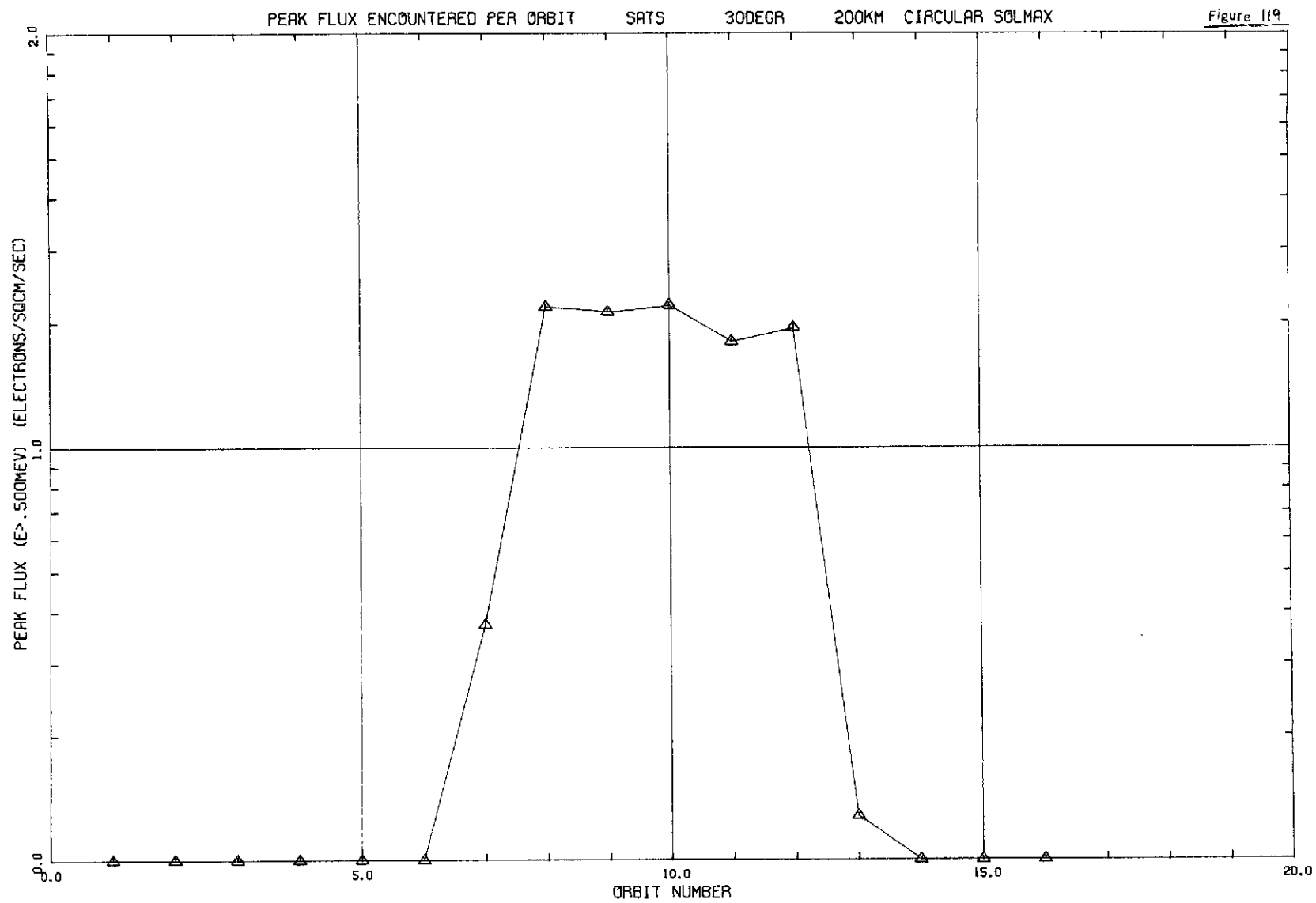
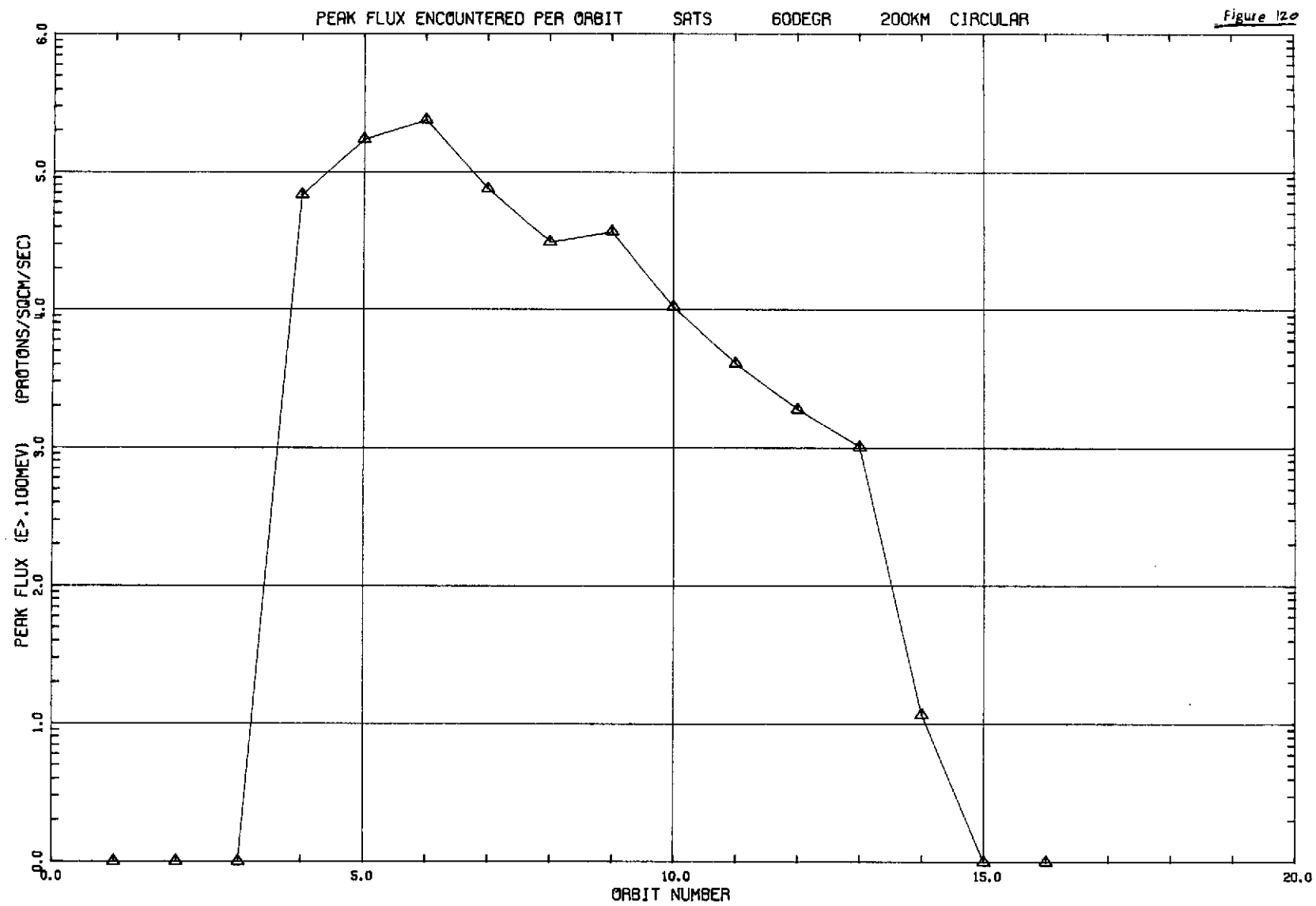


Figure 119



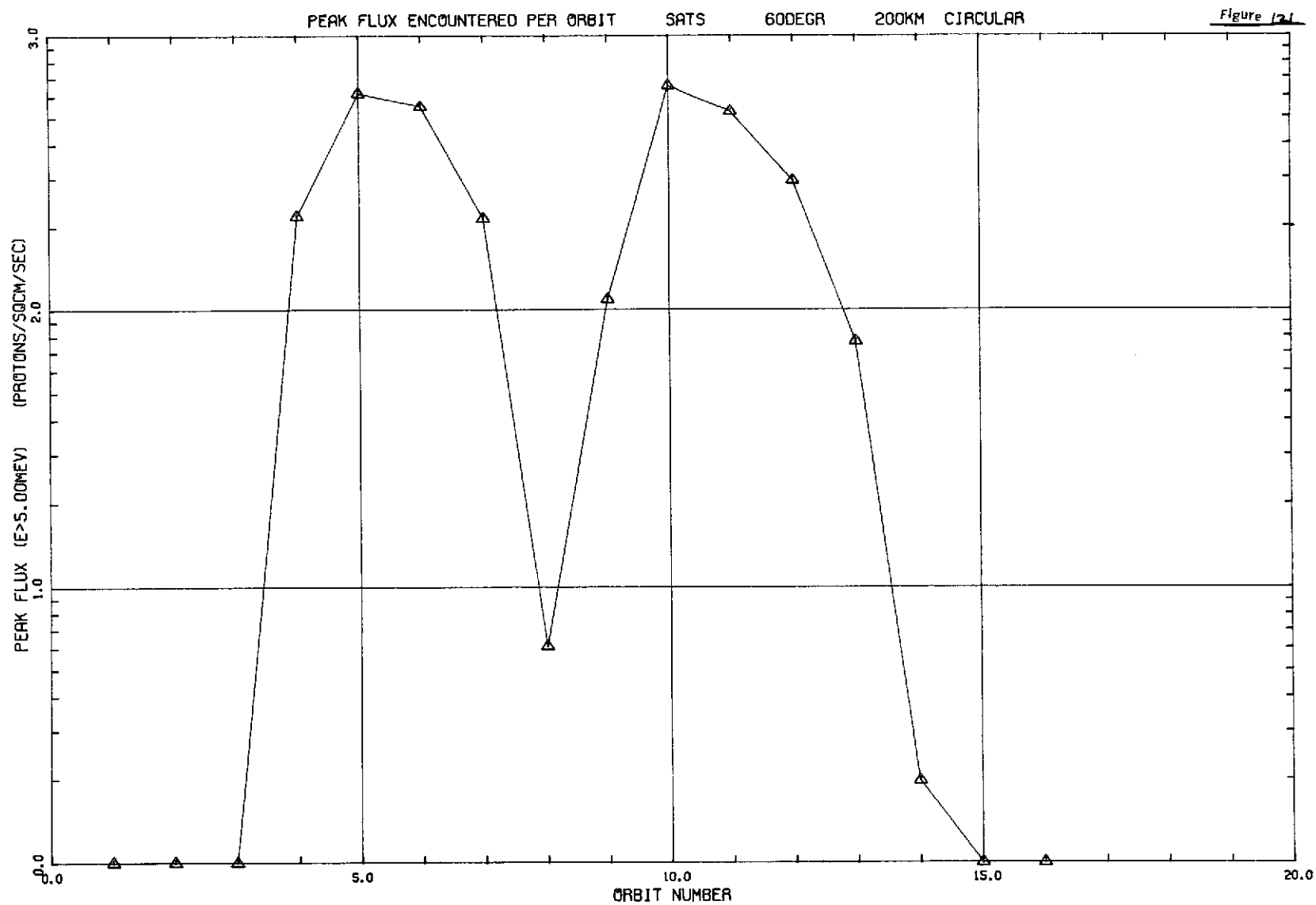


Figure 121

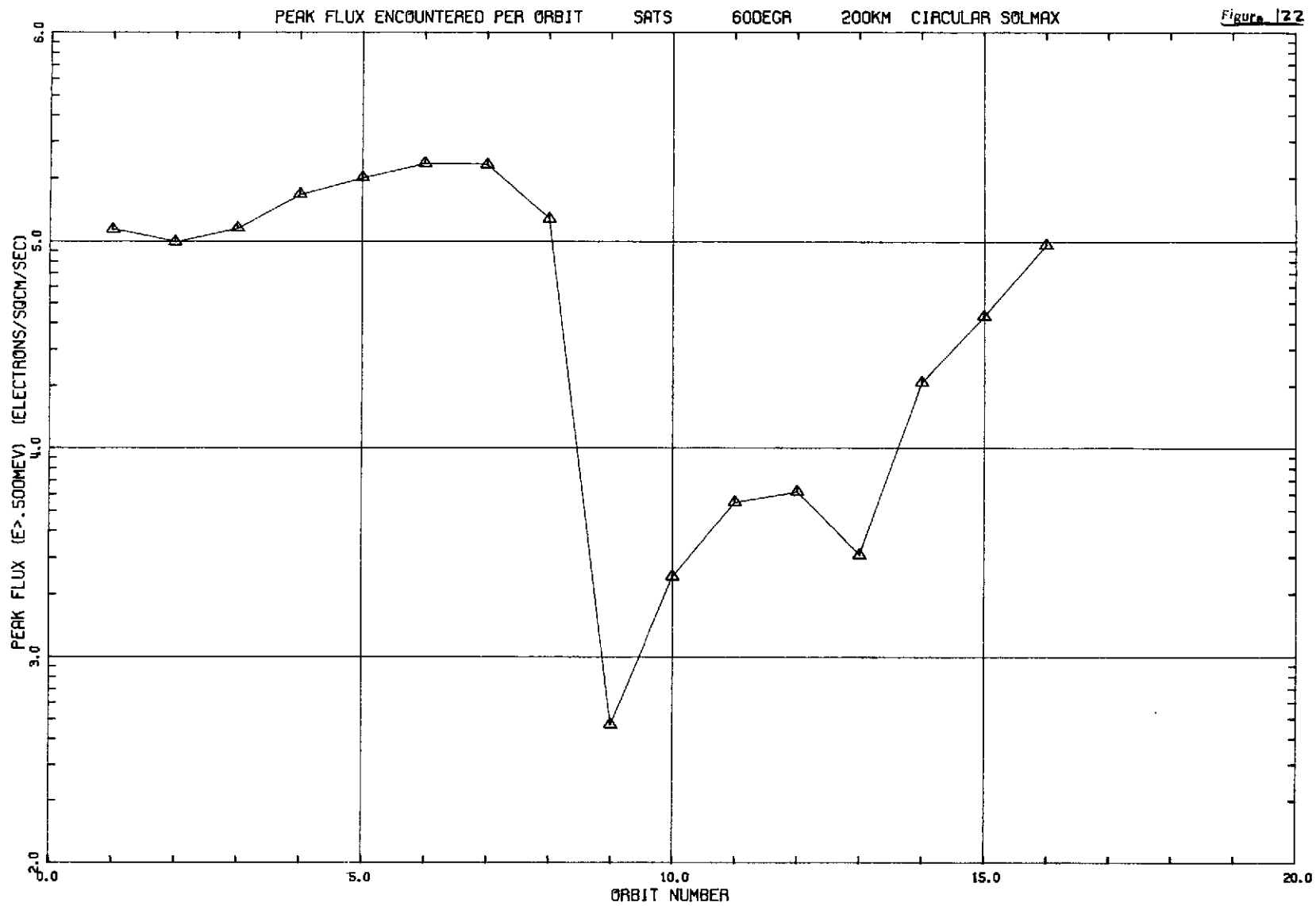


Figure 22

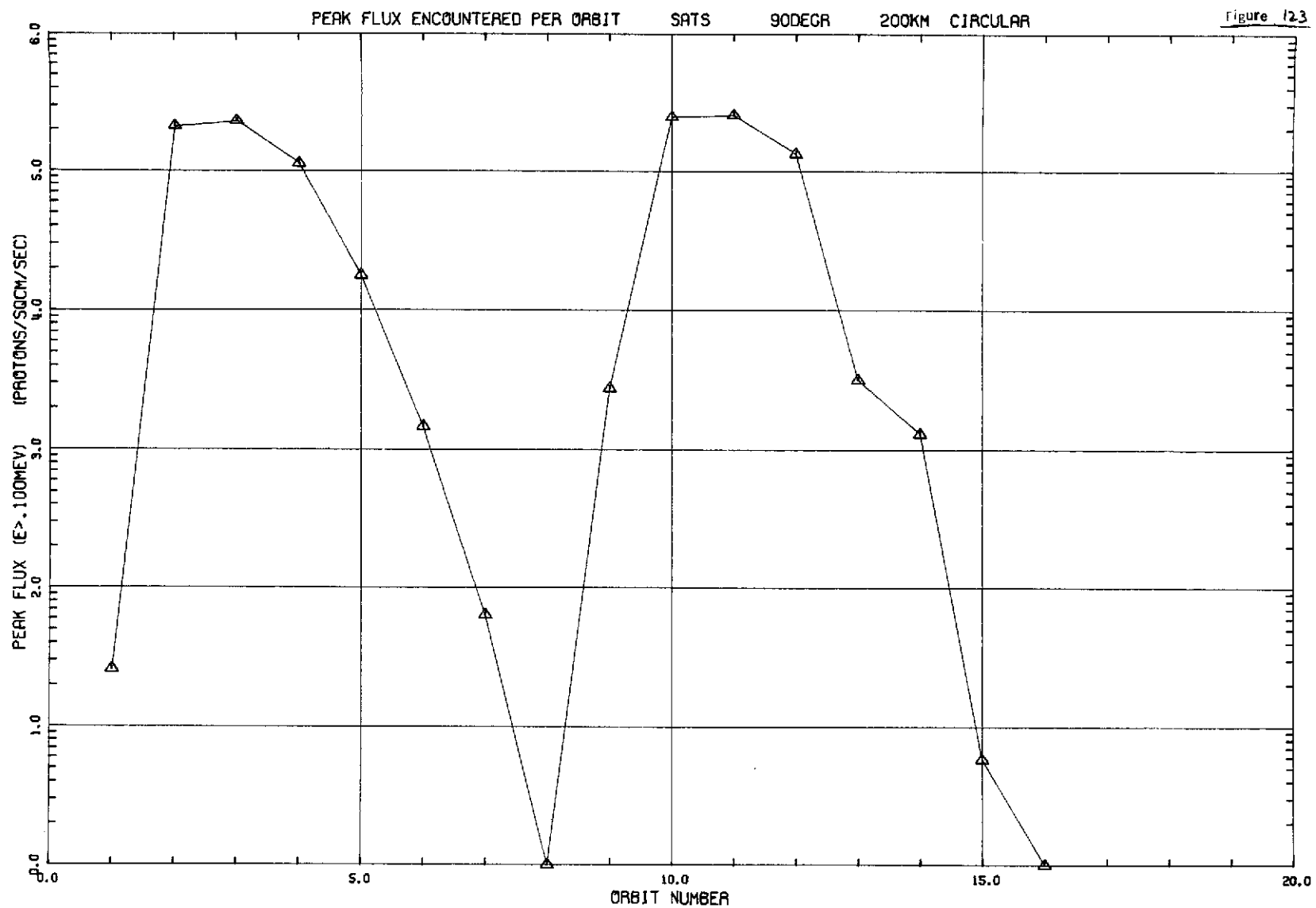


Figure 124

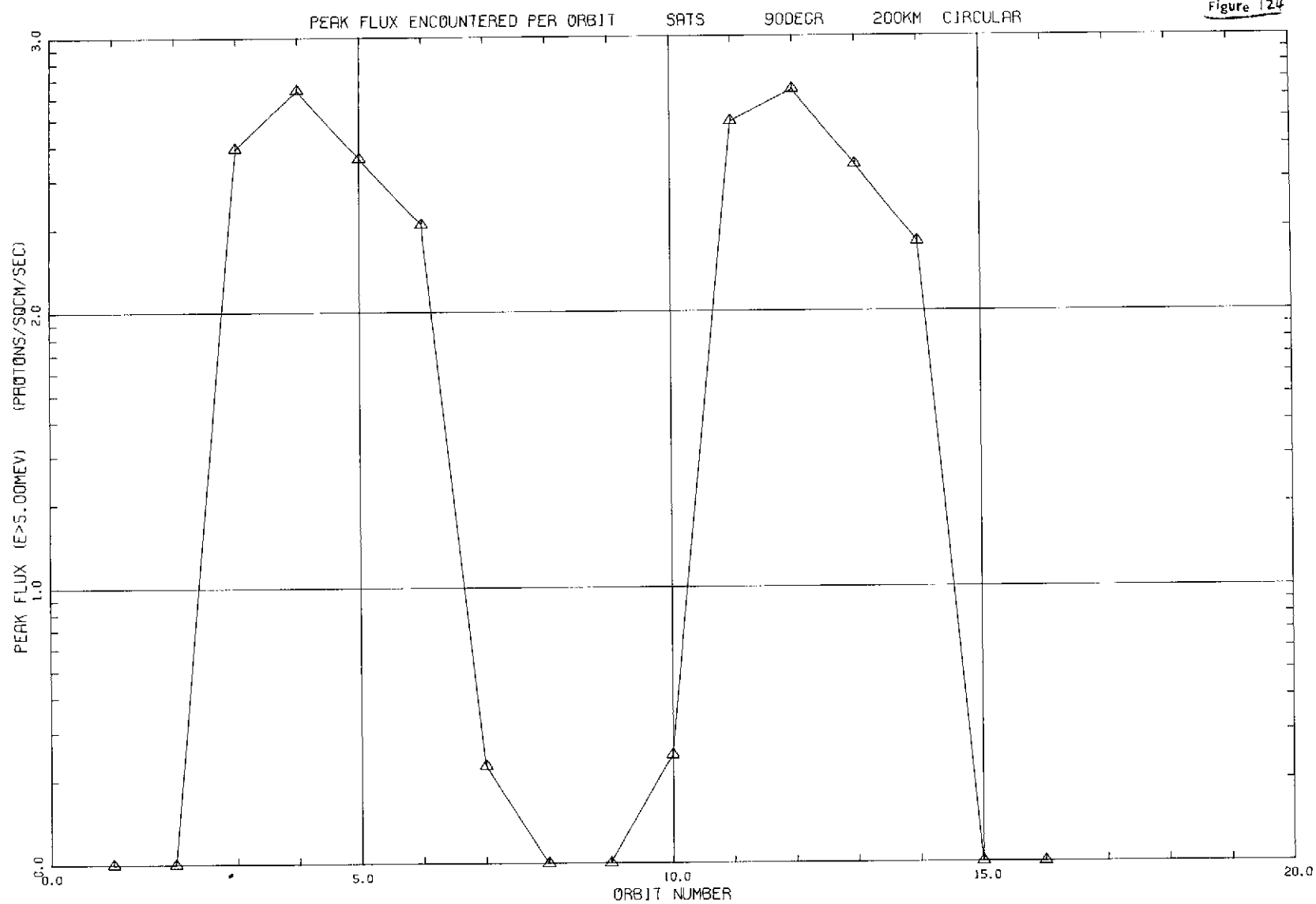
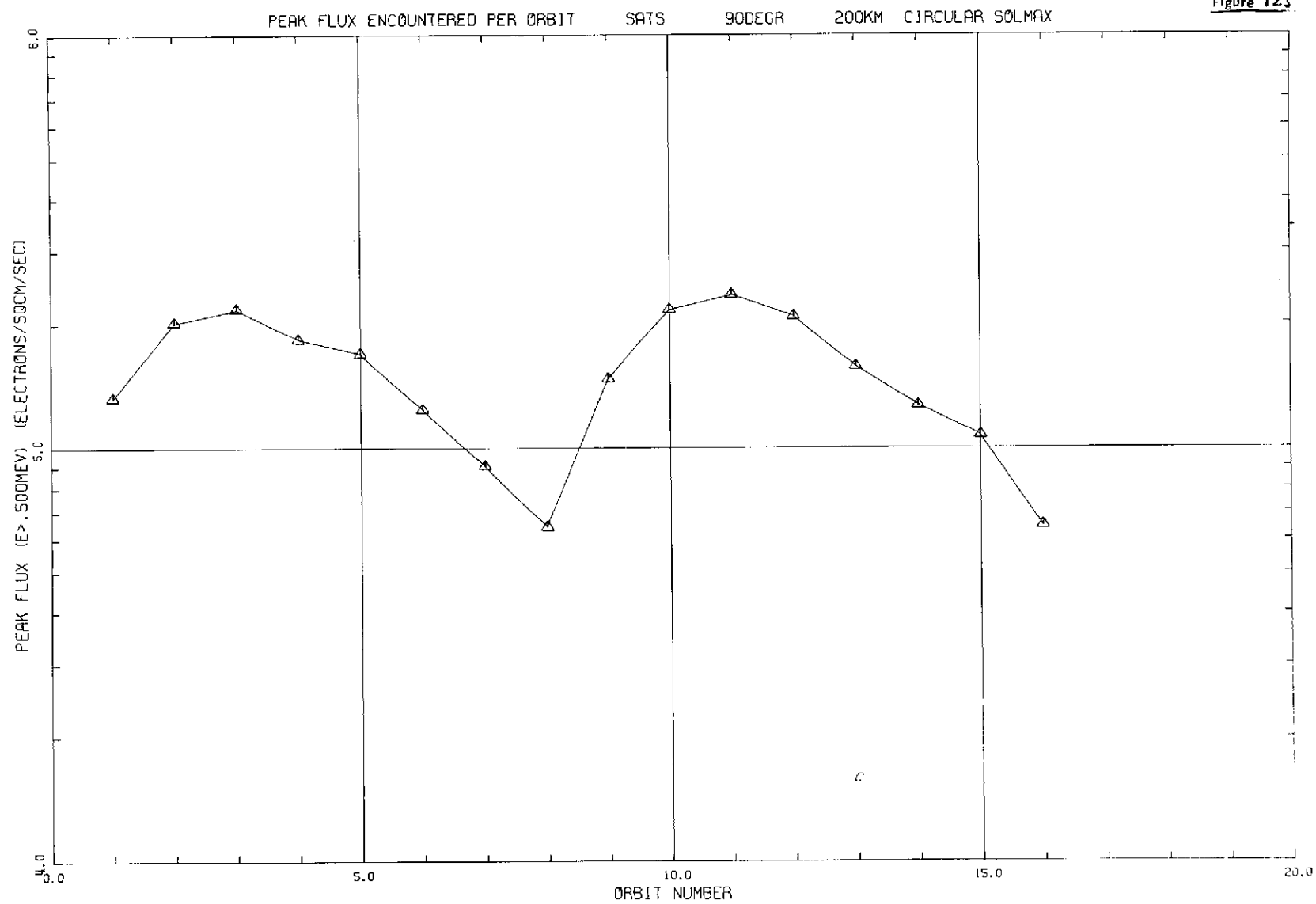


Figure 125



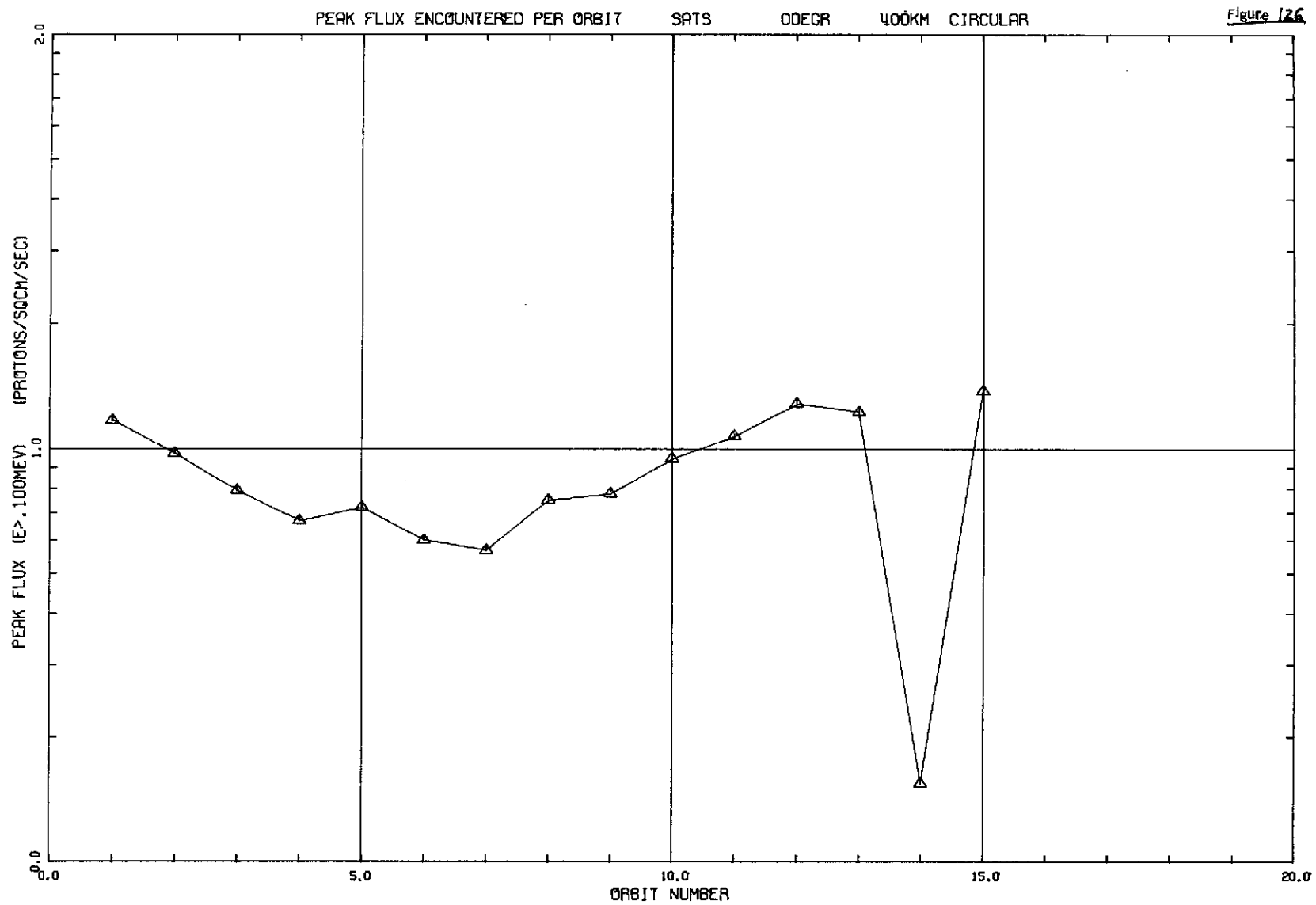


Figure 126

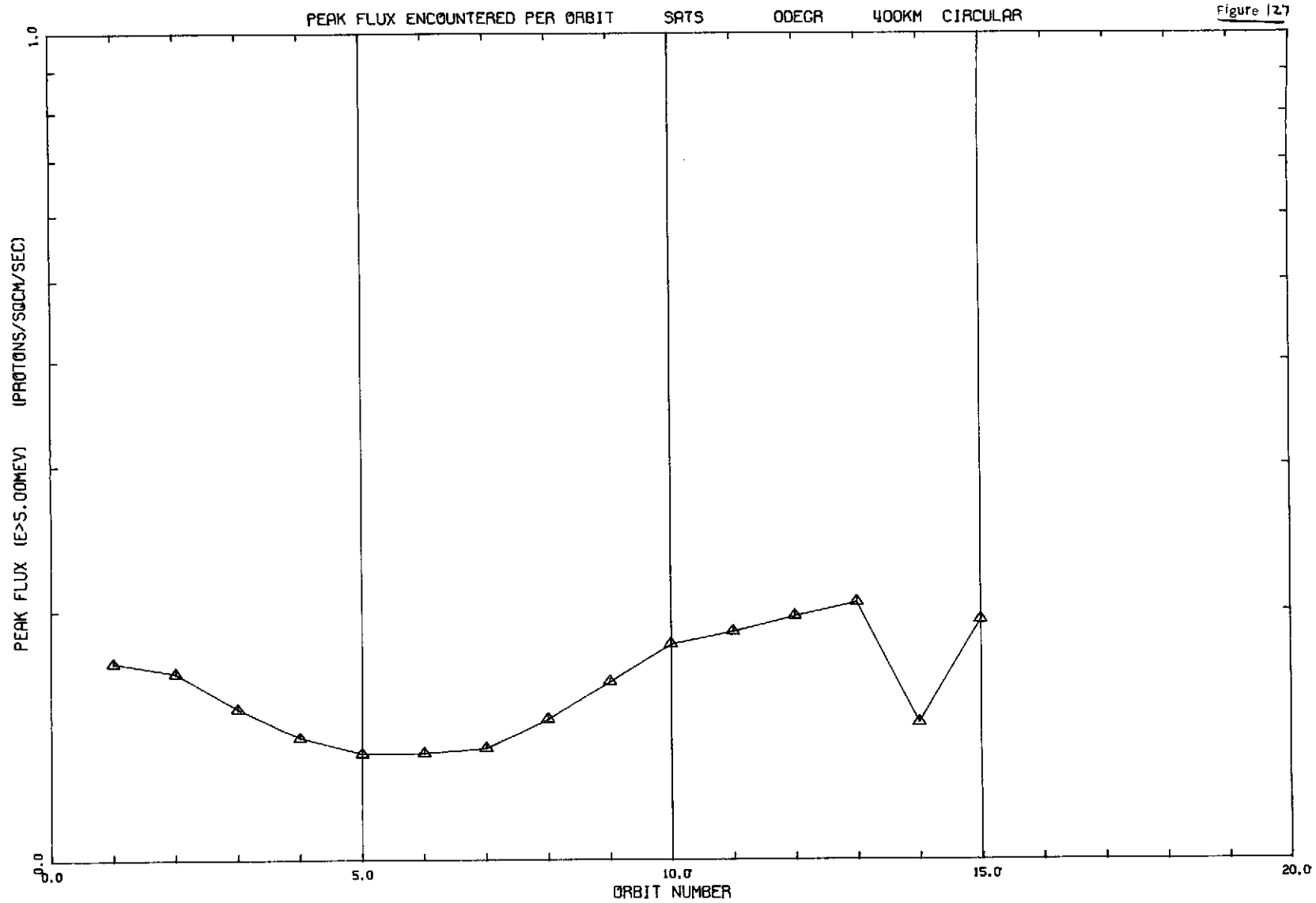
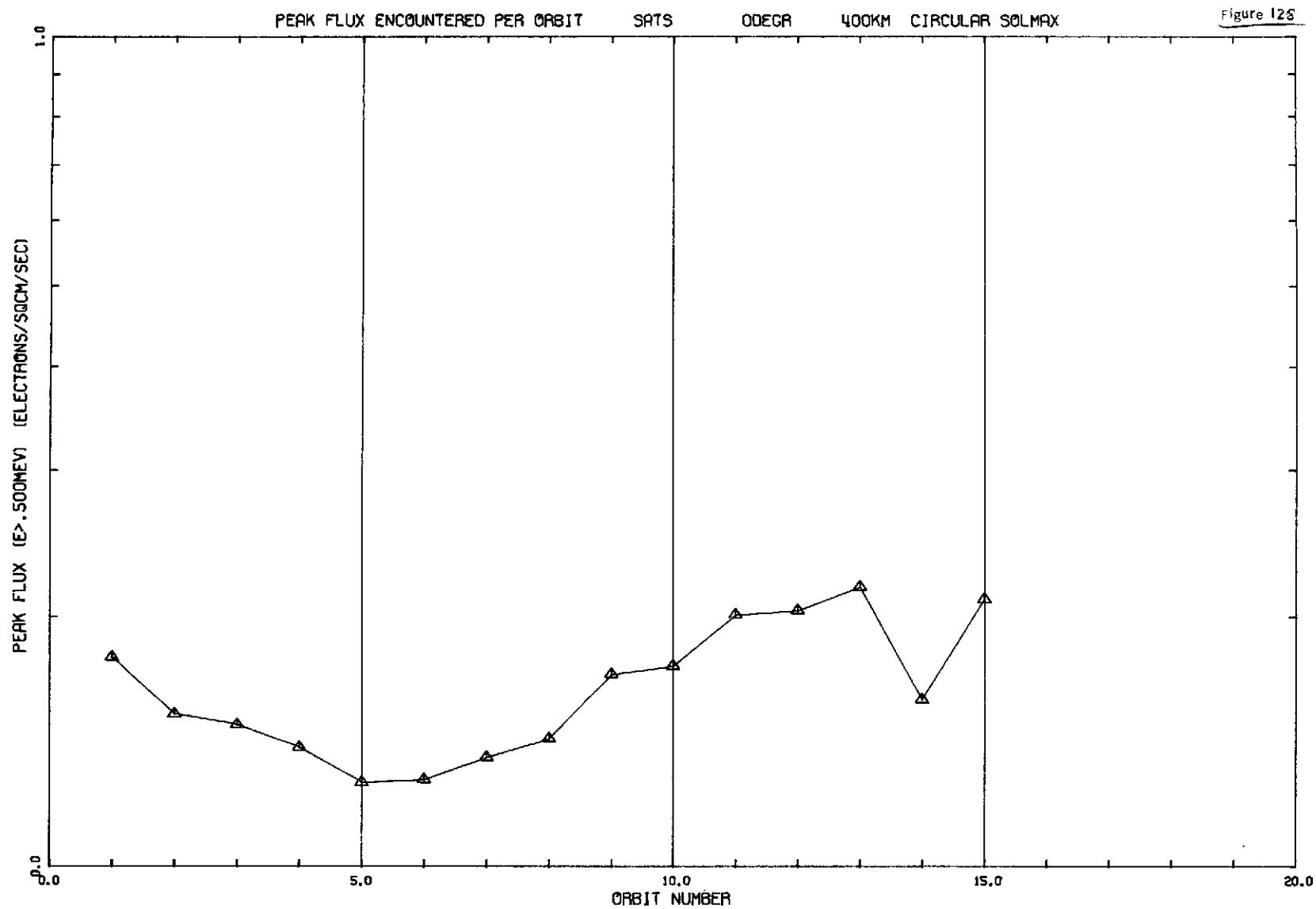


Figure 127



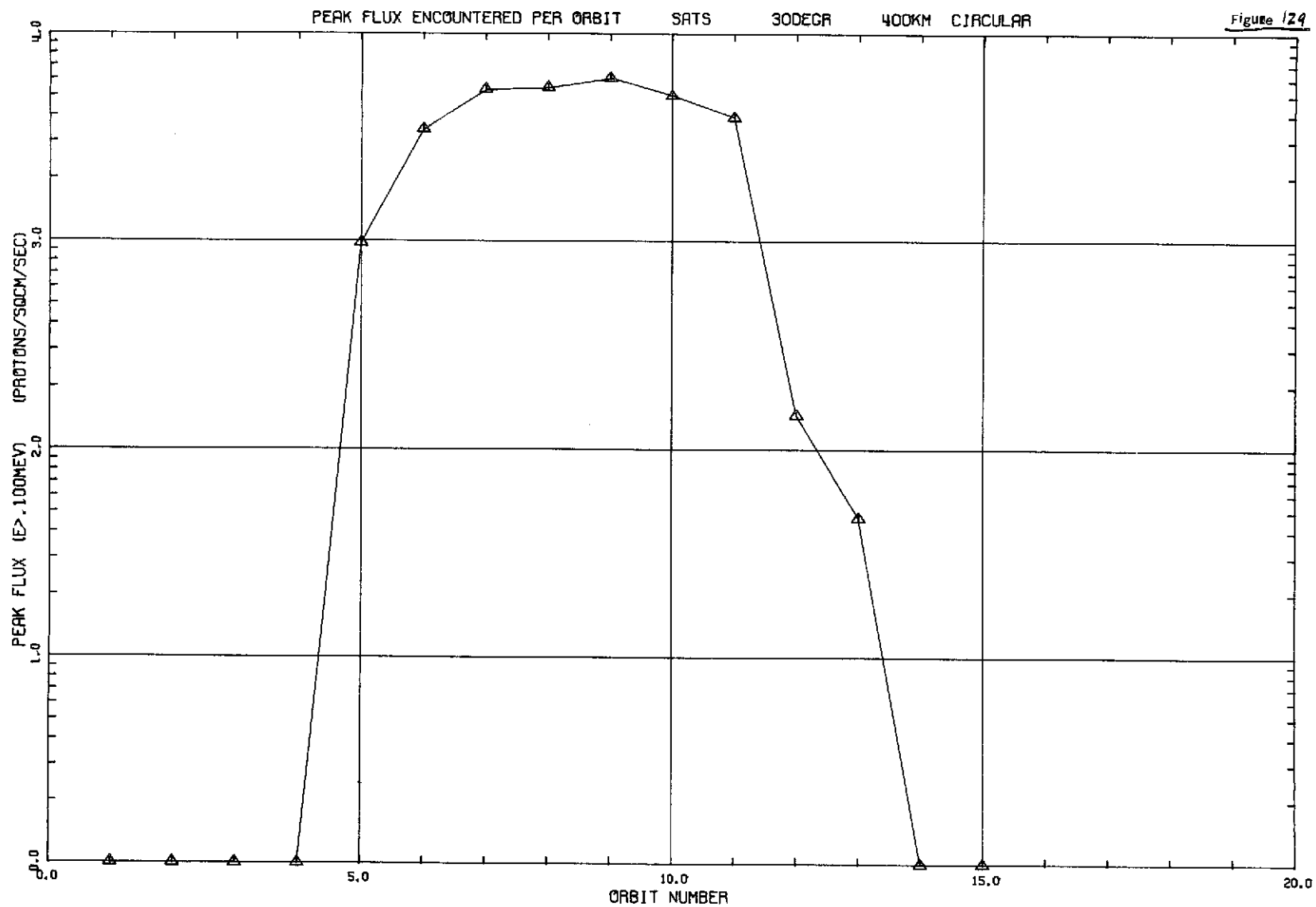
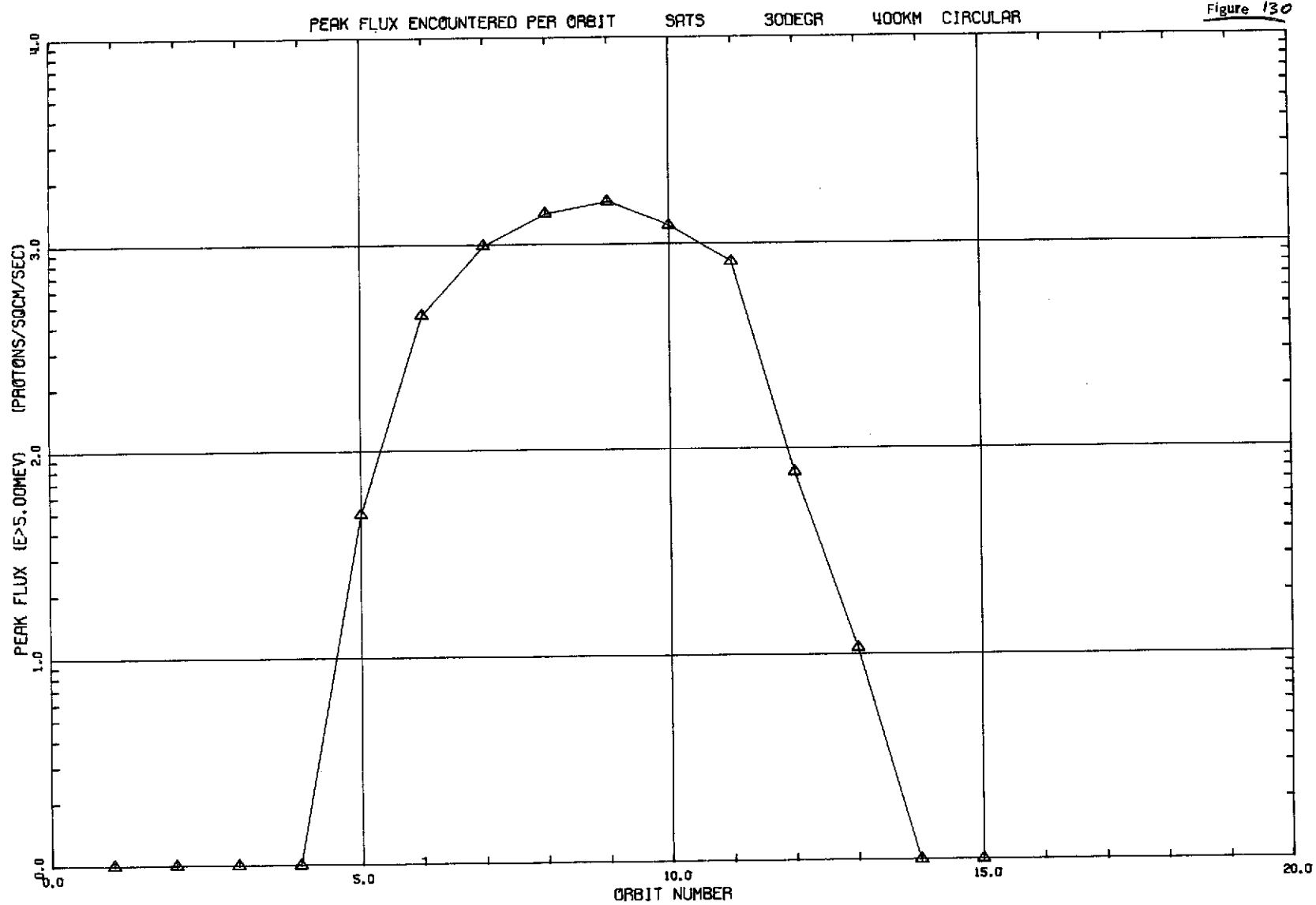
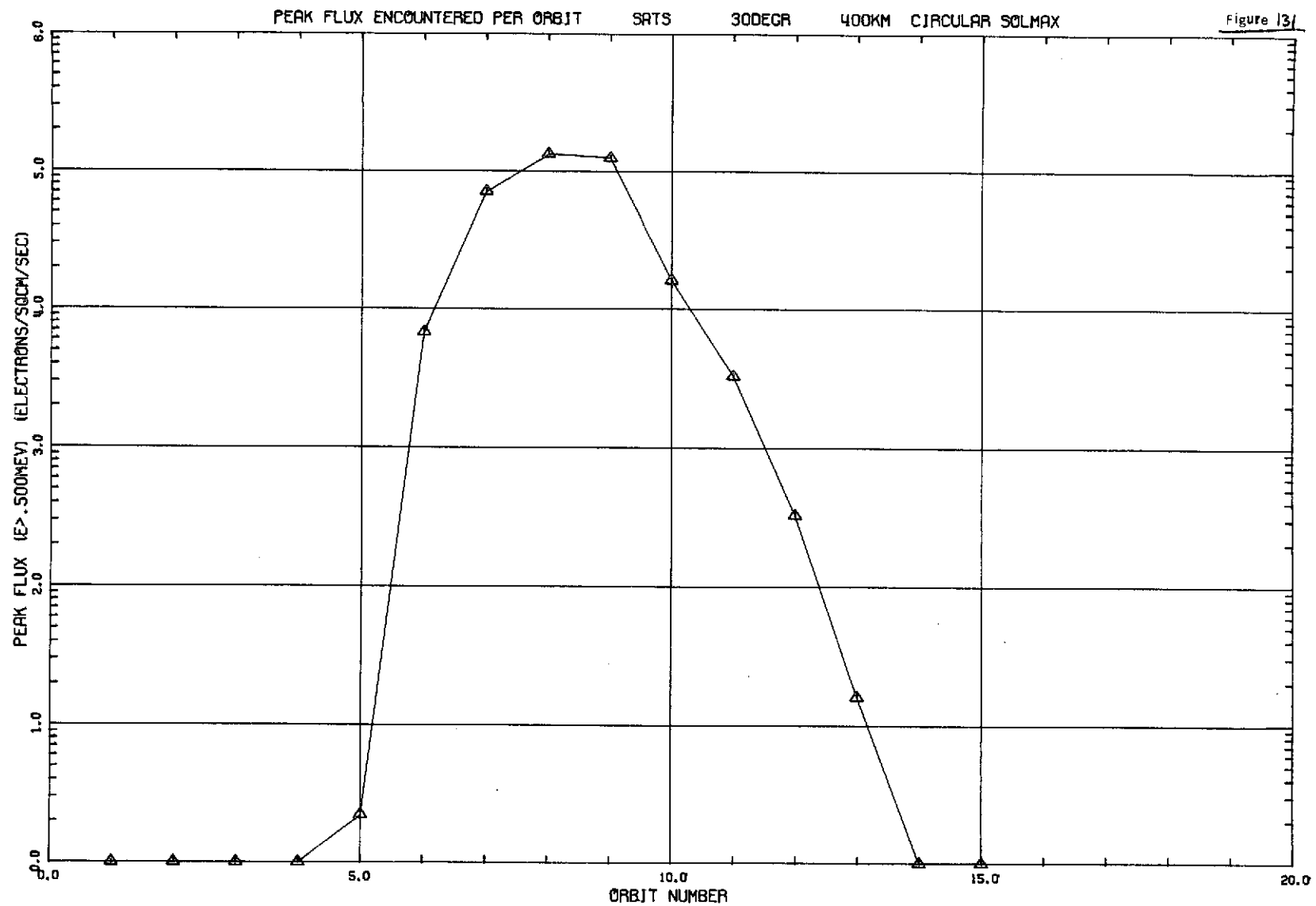
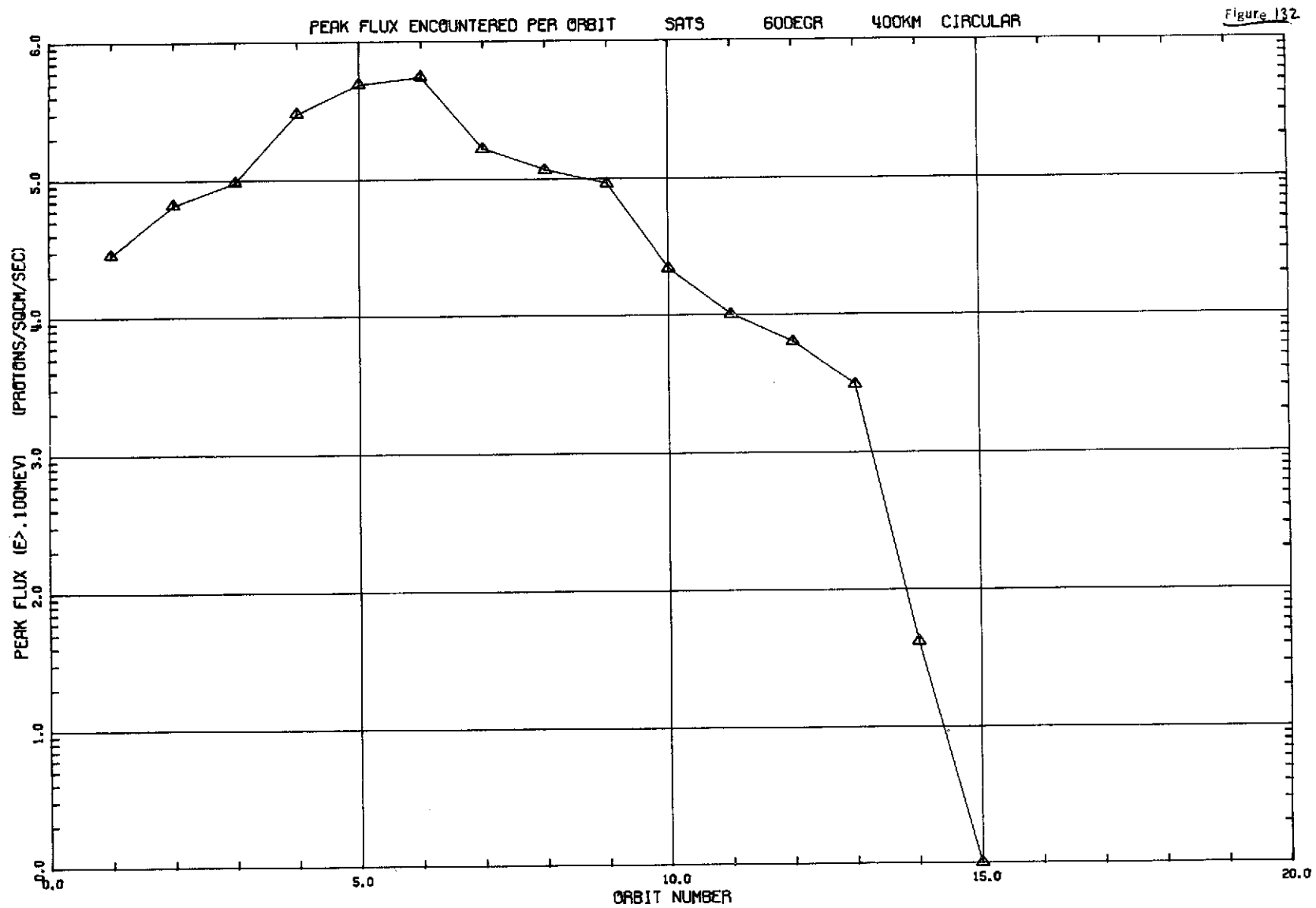
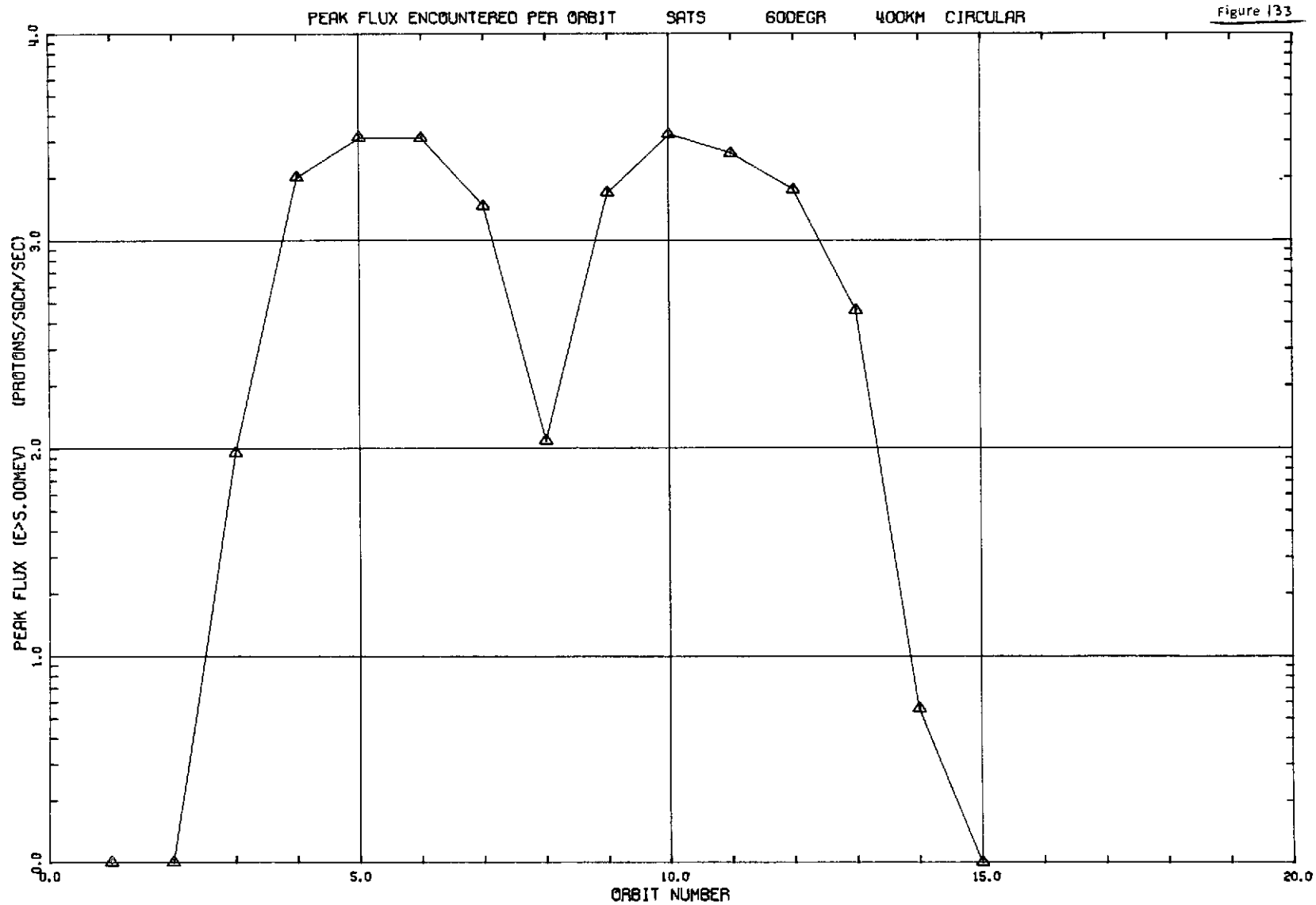


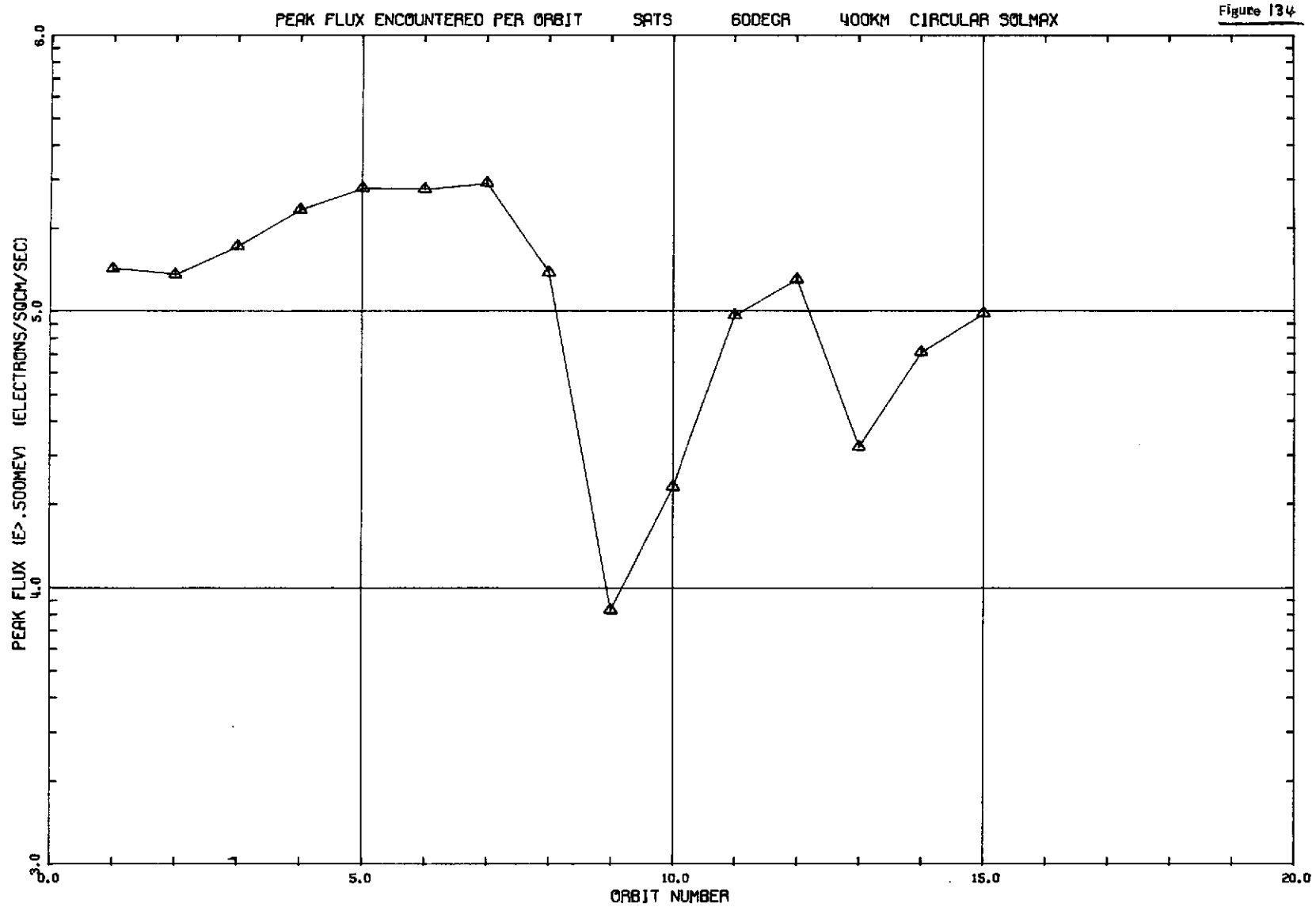
Figure 130

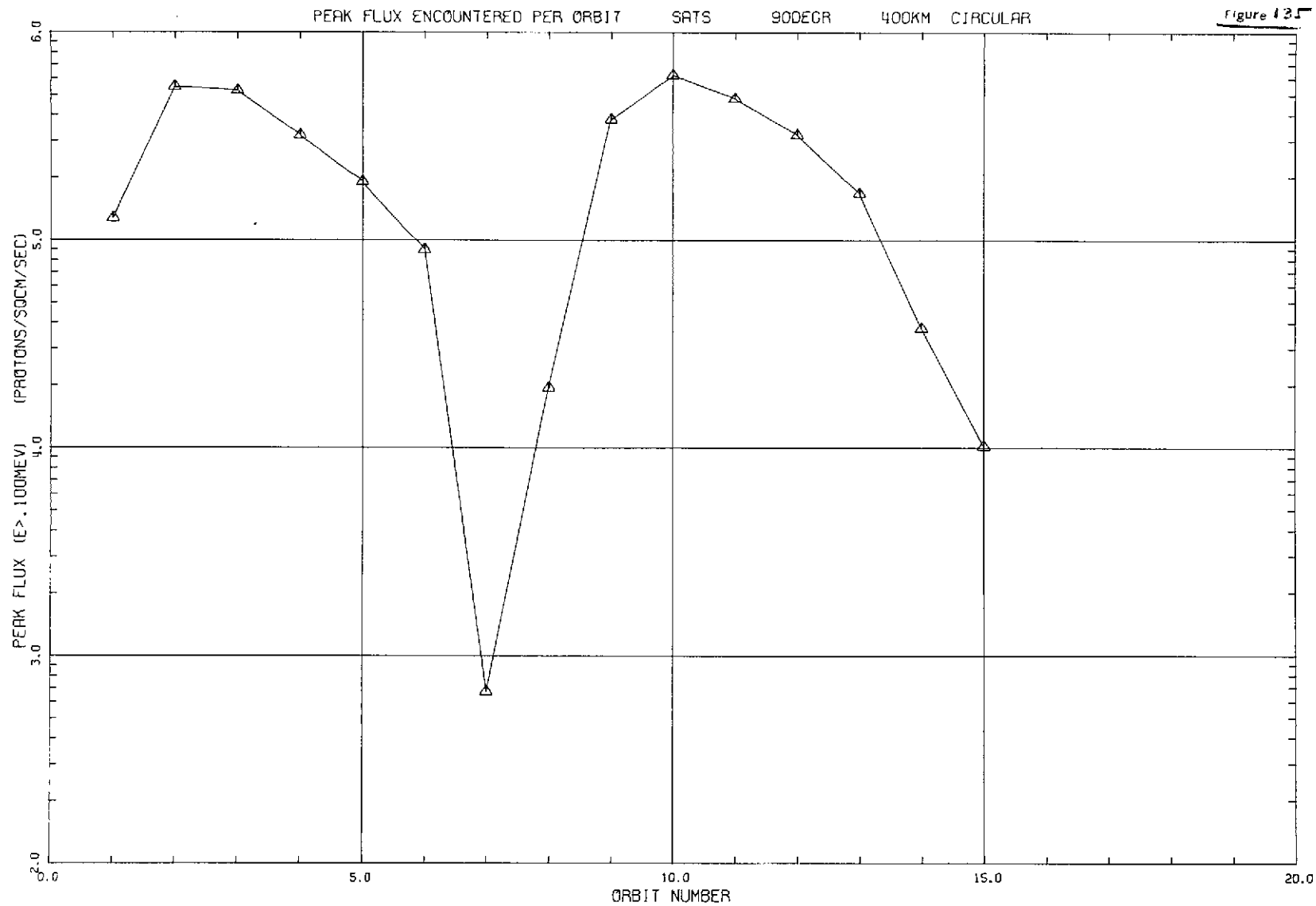


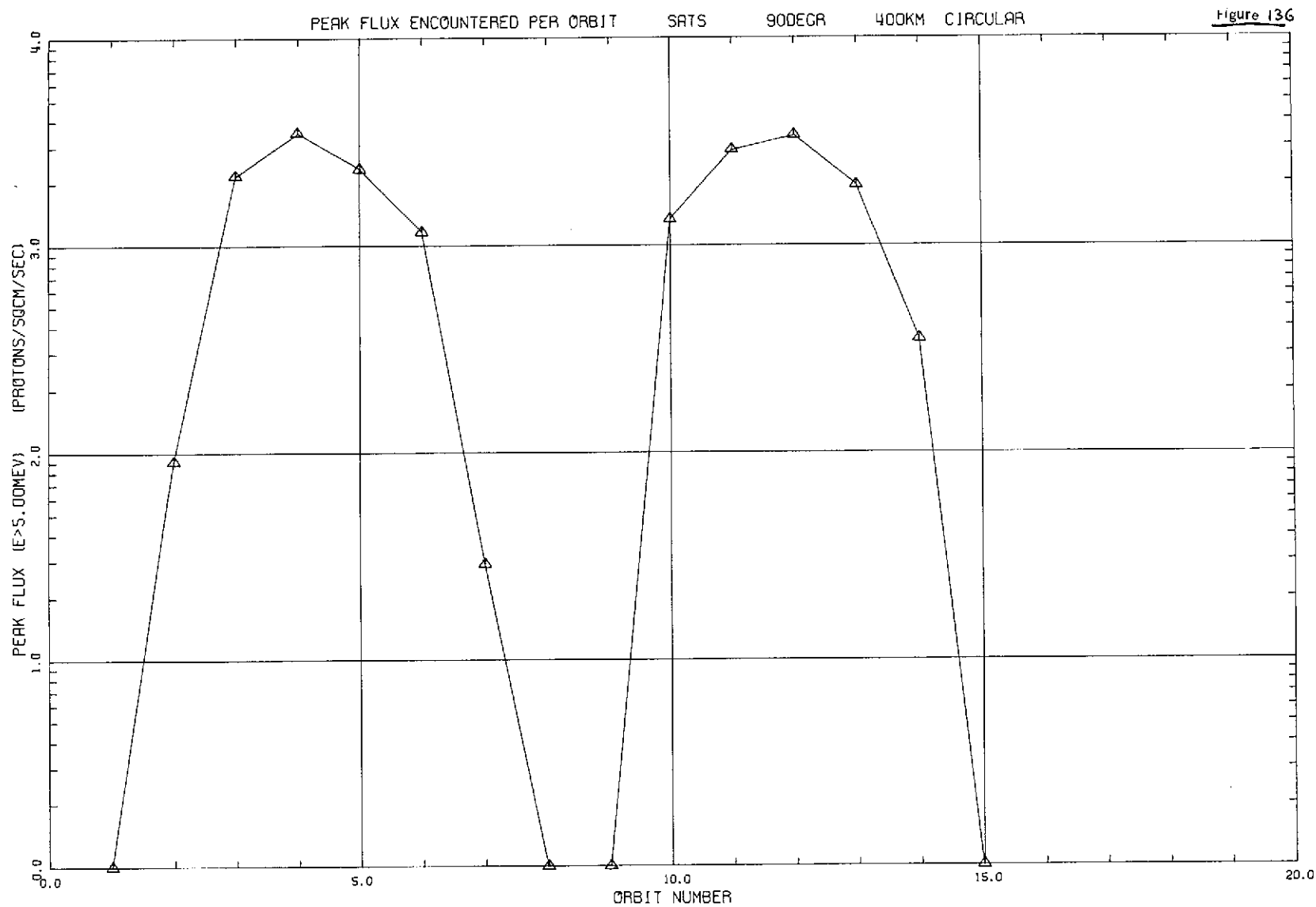


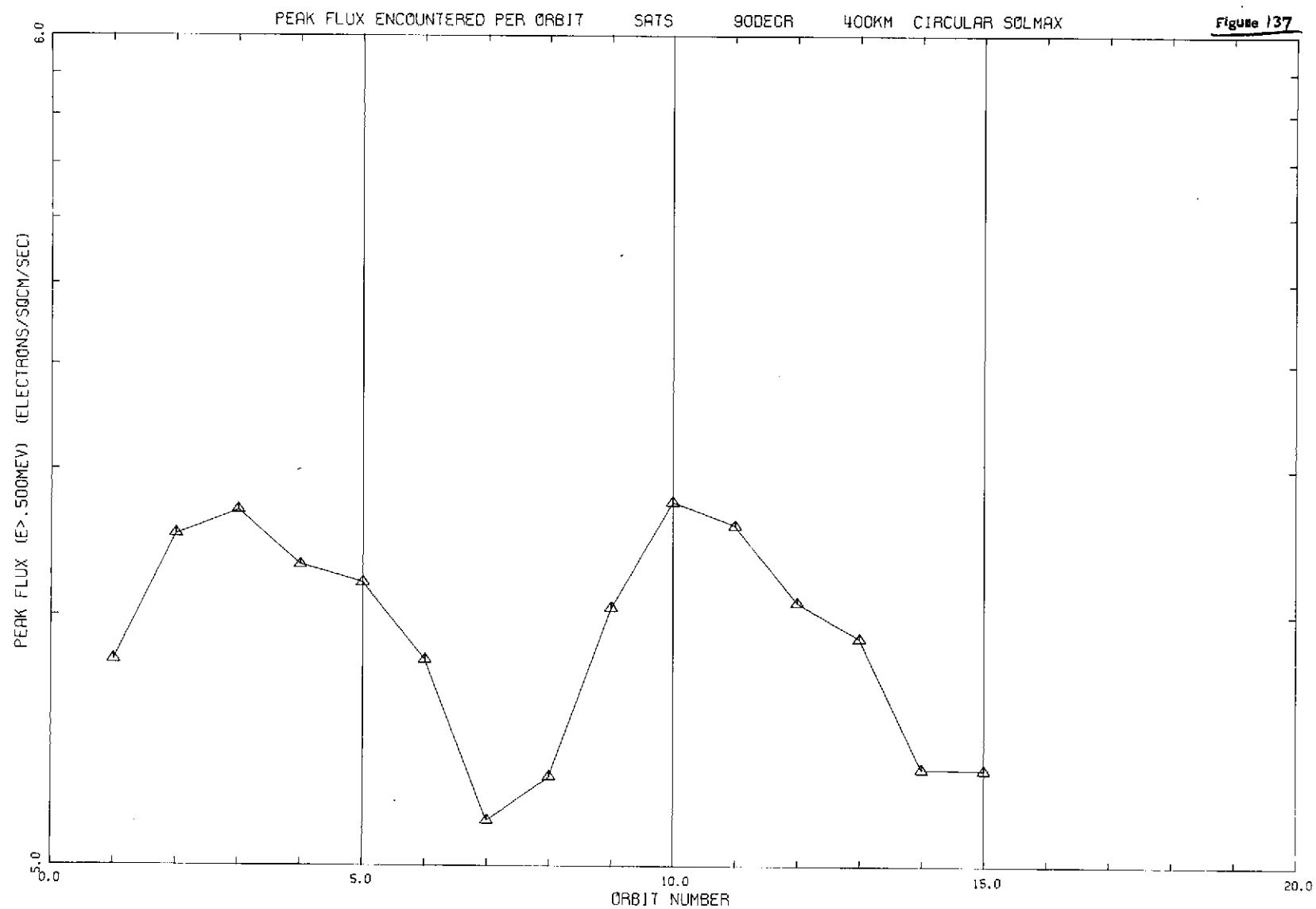












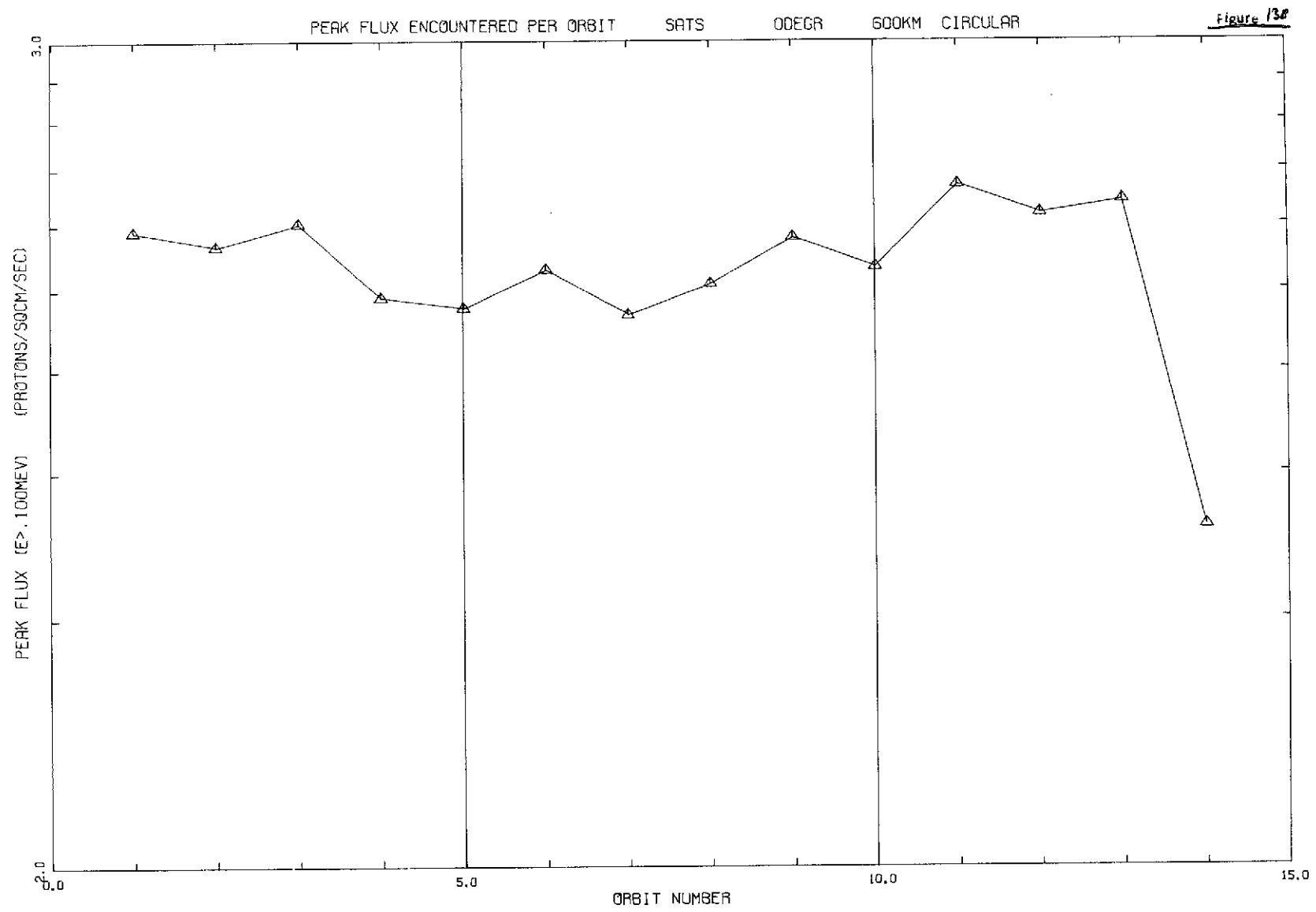
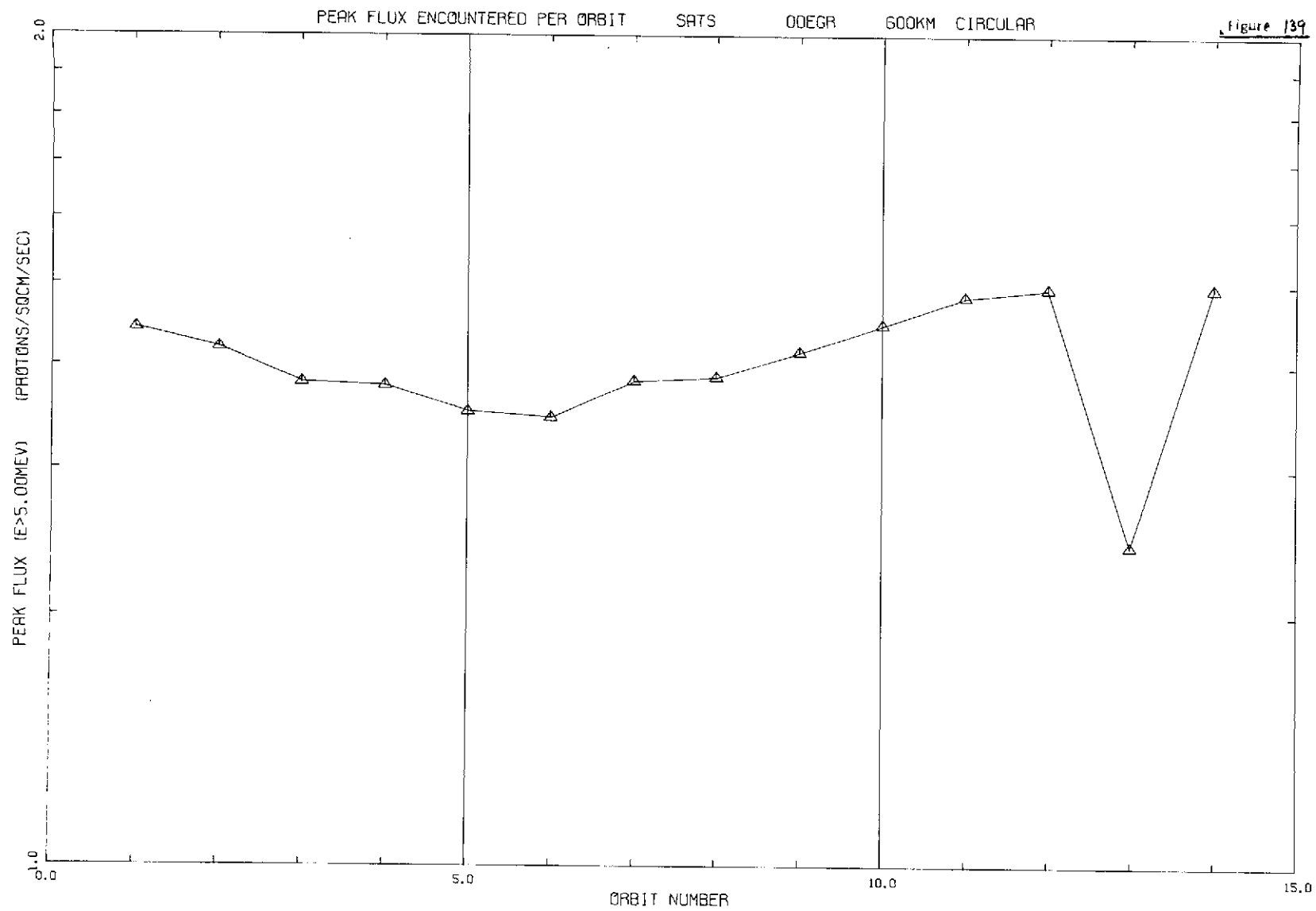
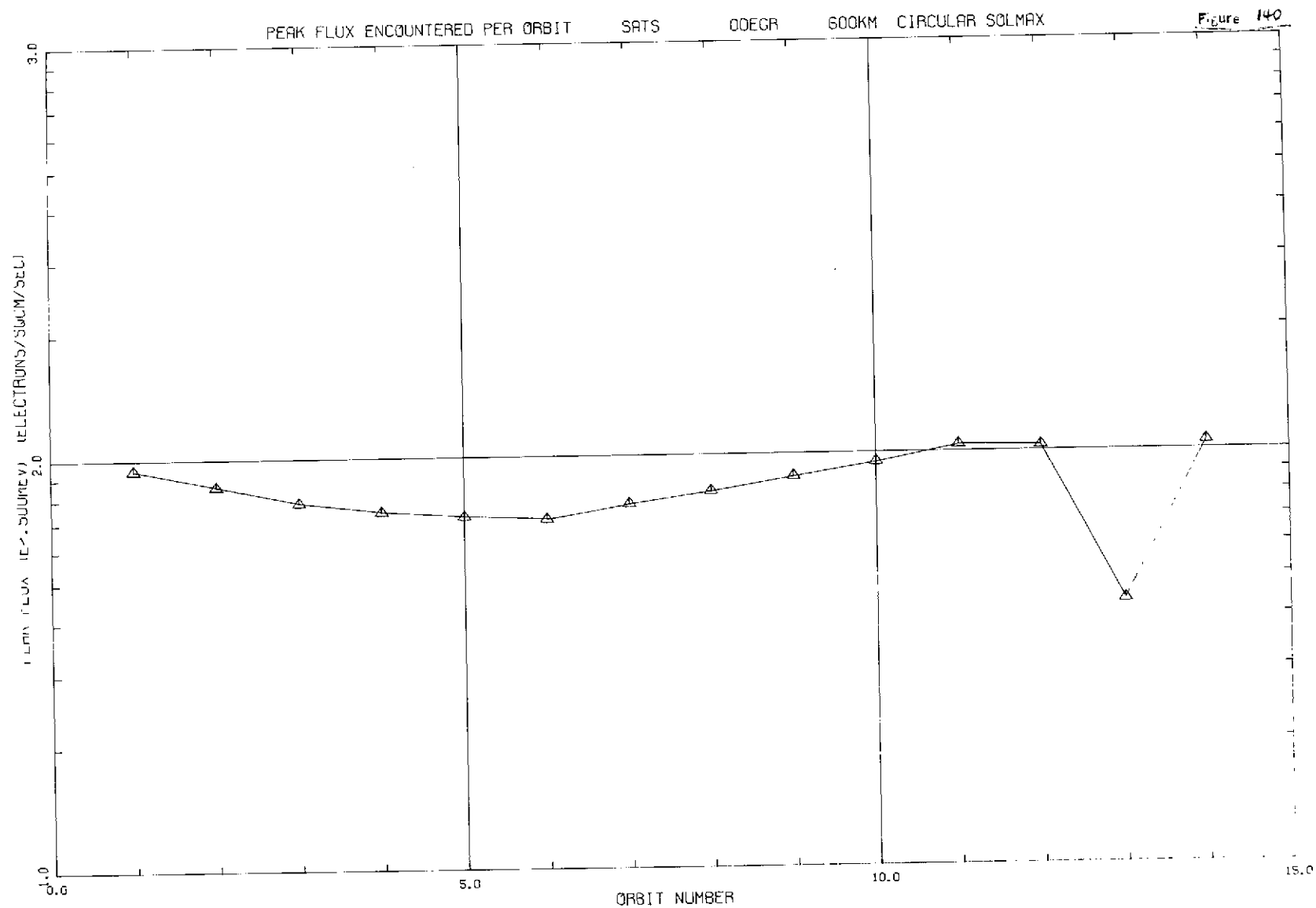
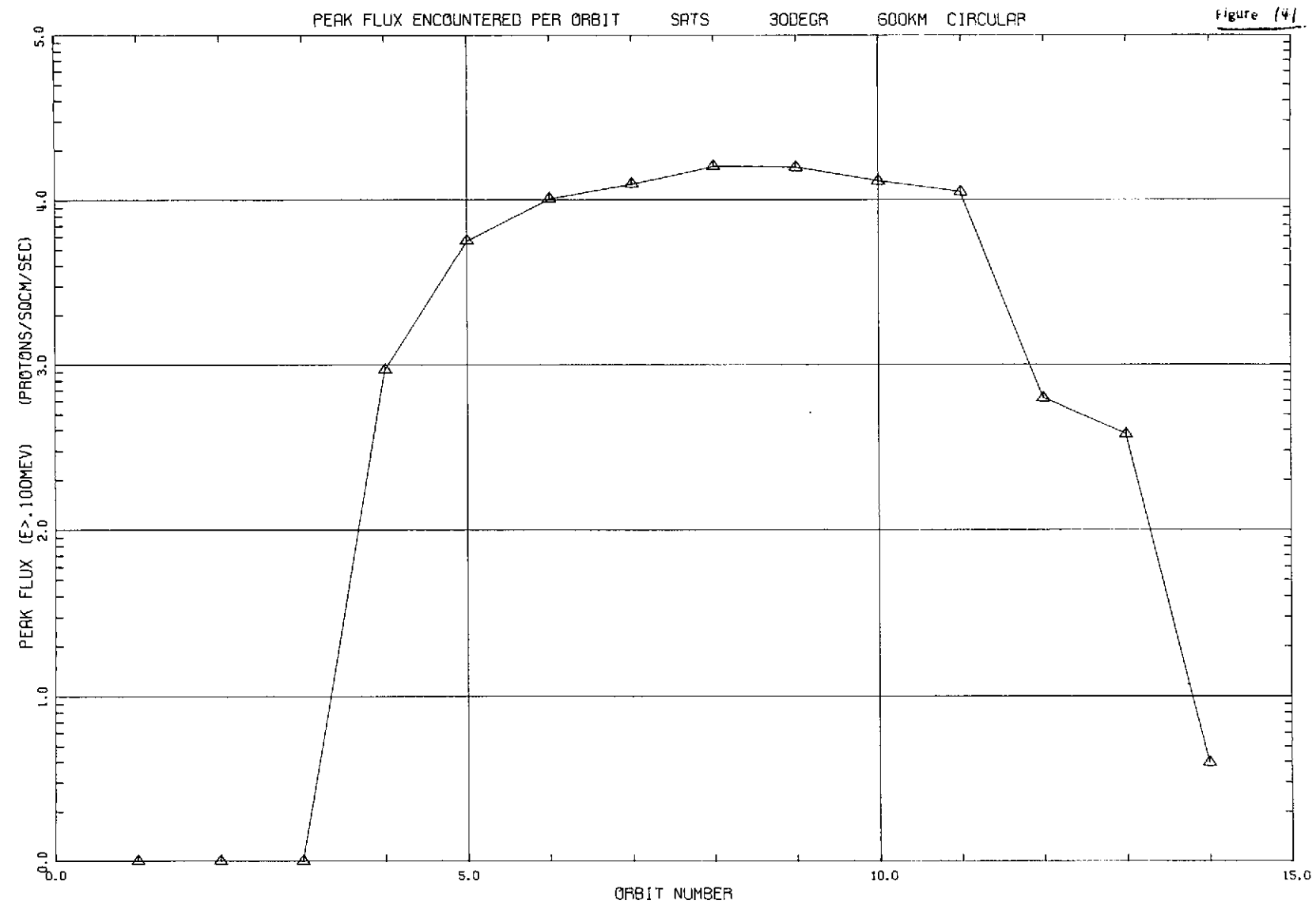
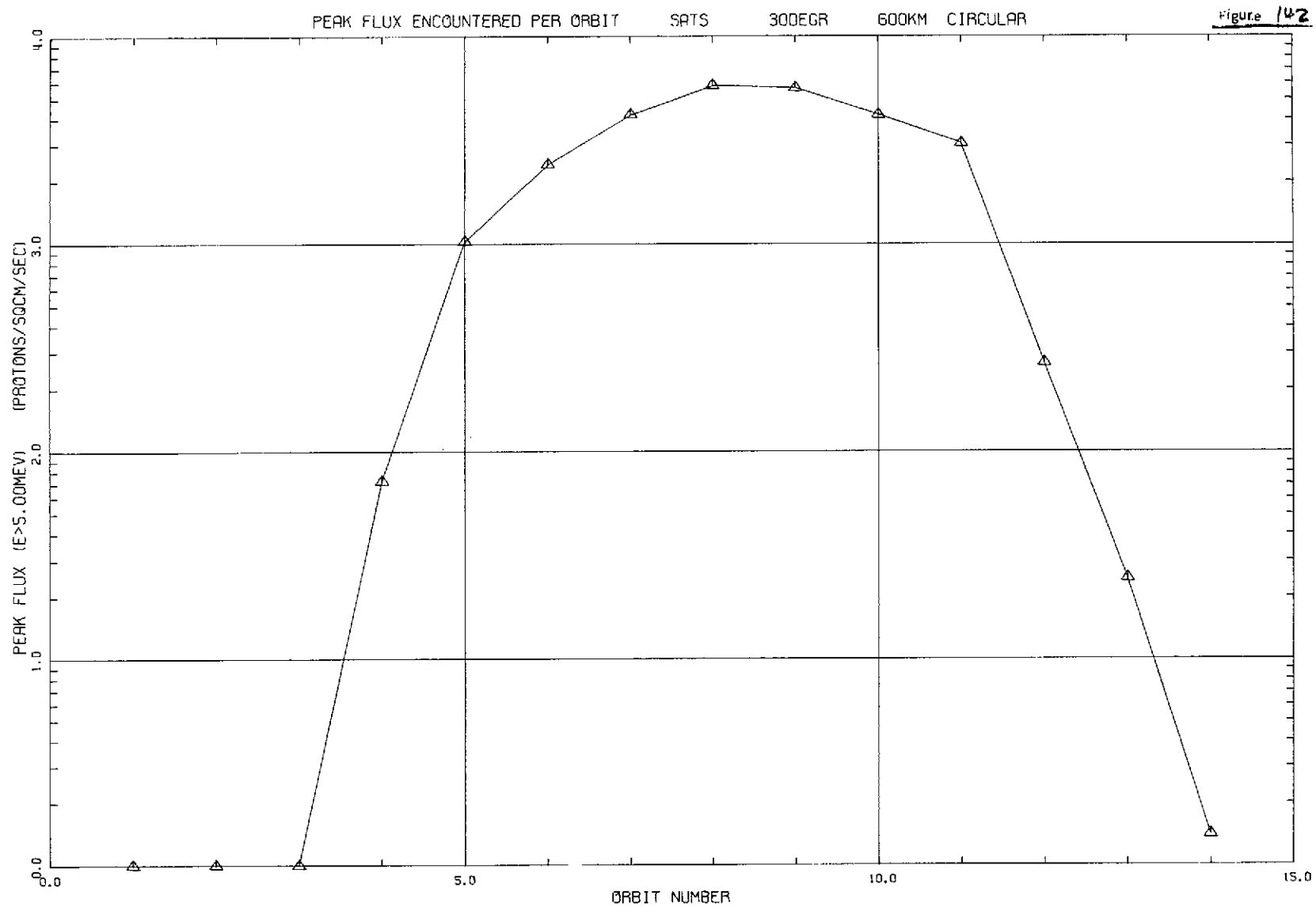


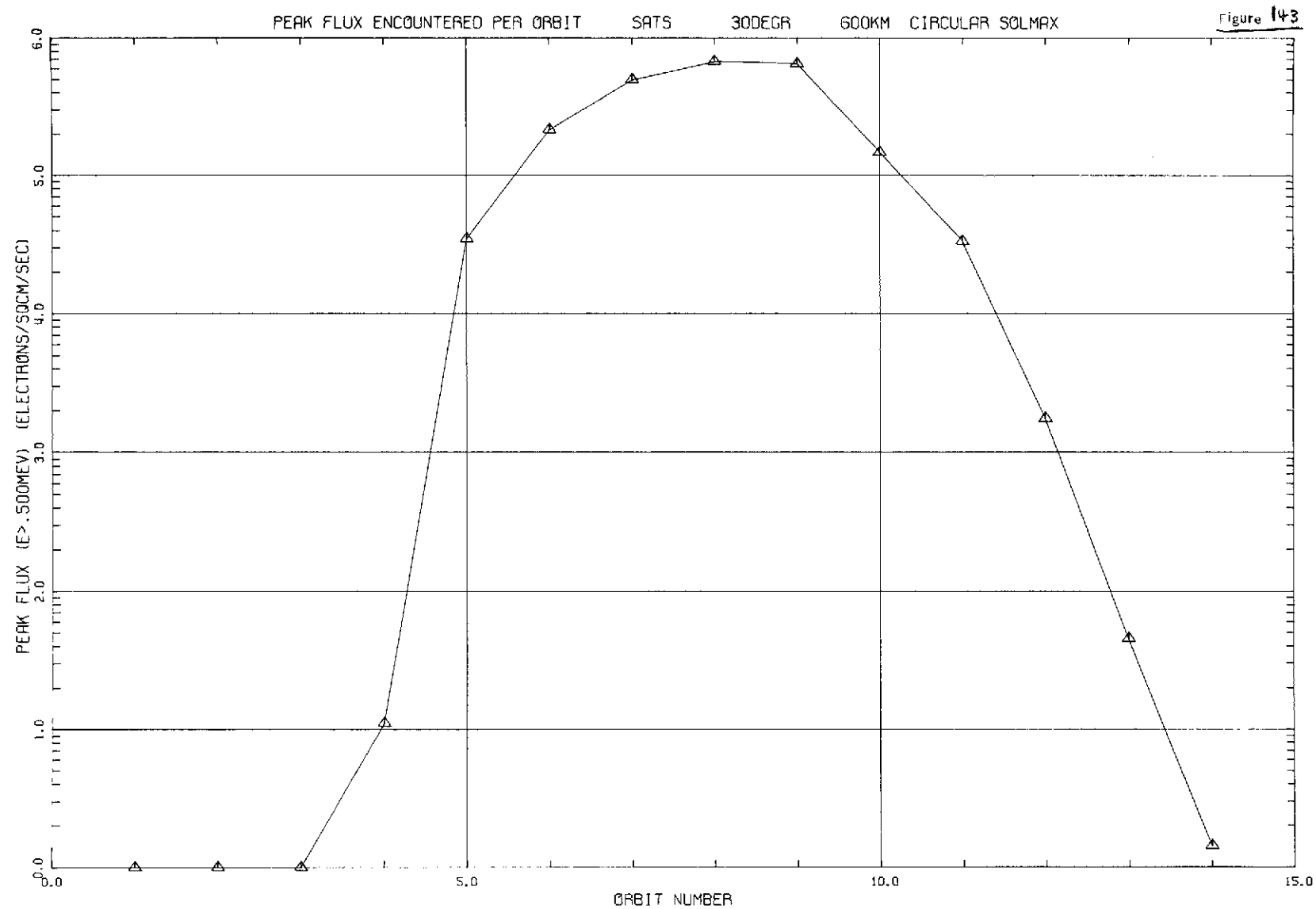
Figure 13a

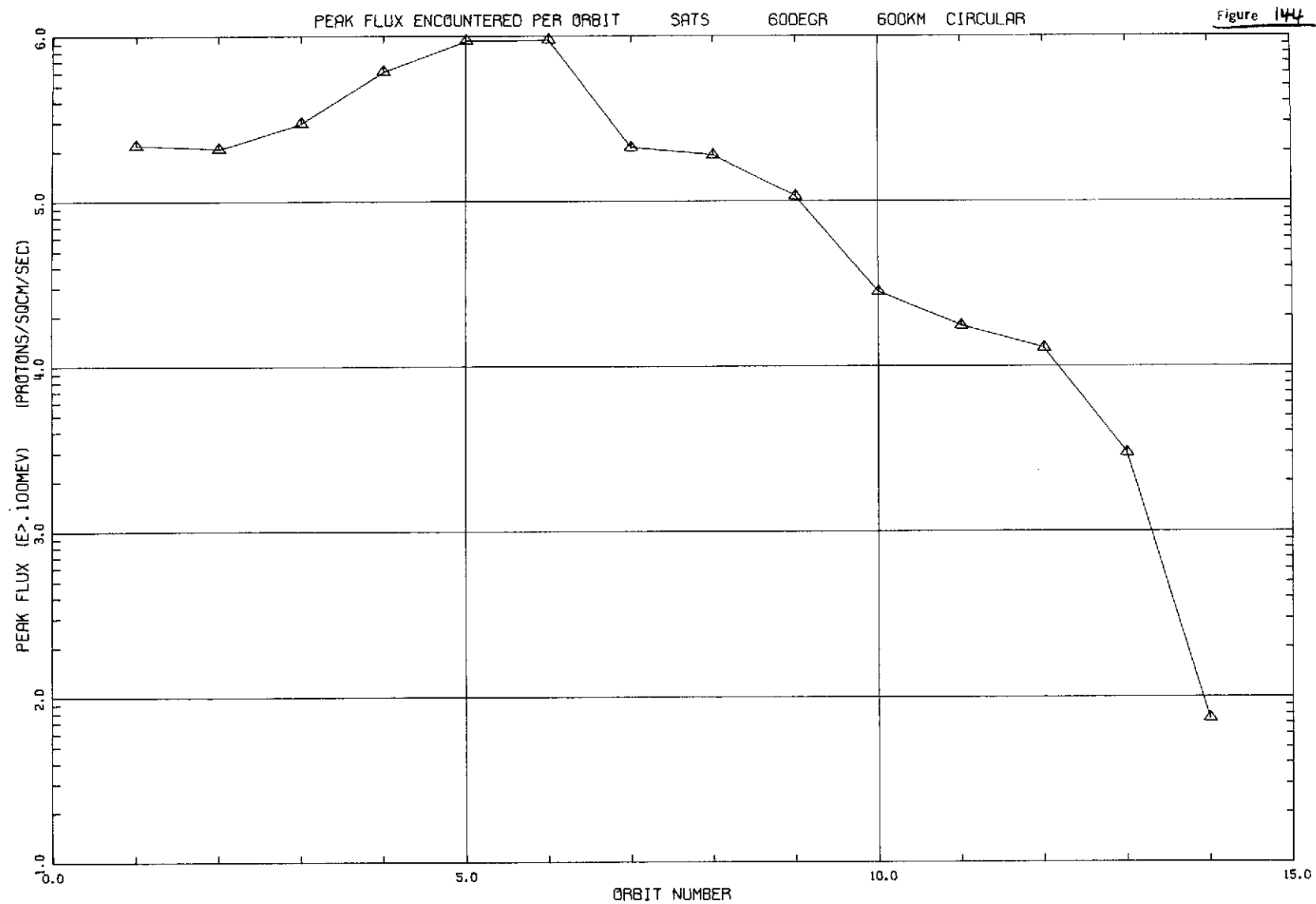


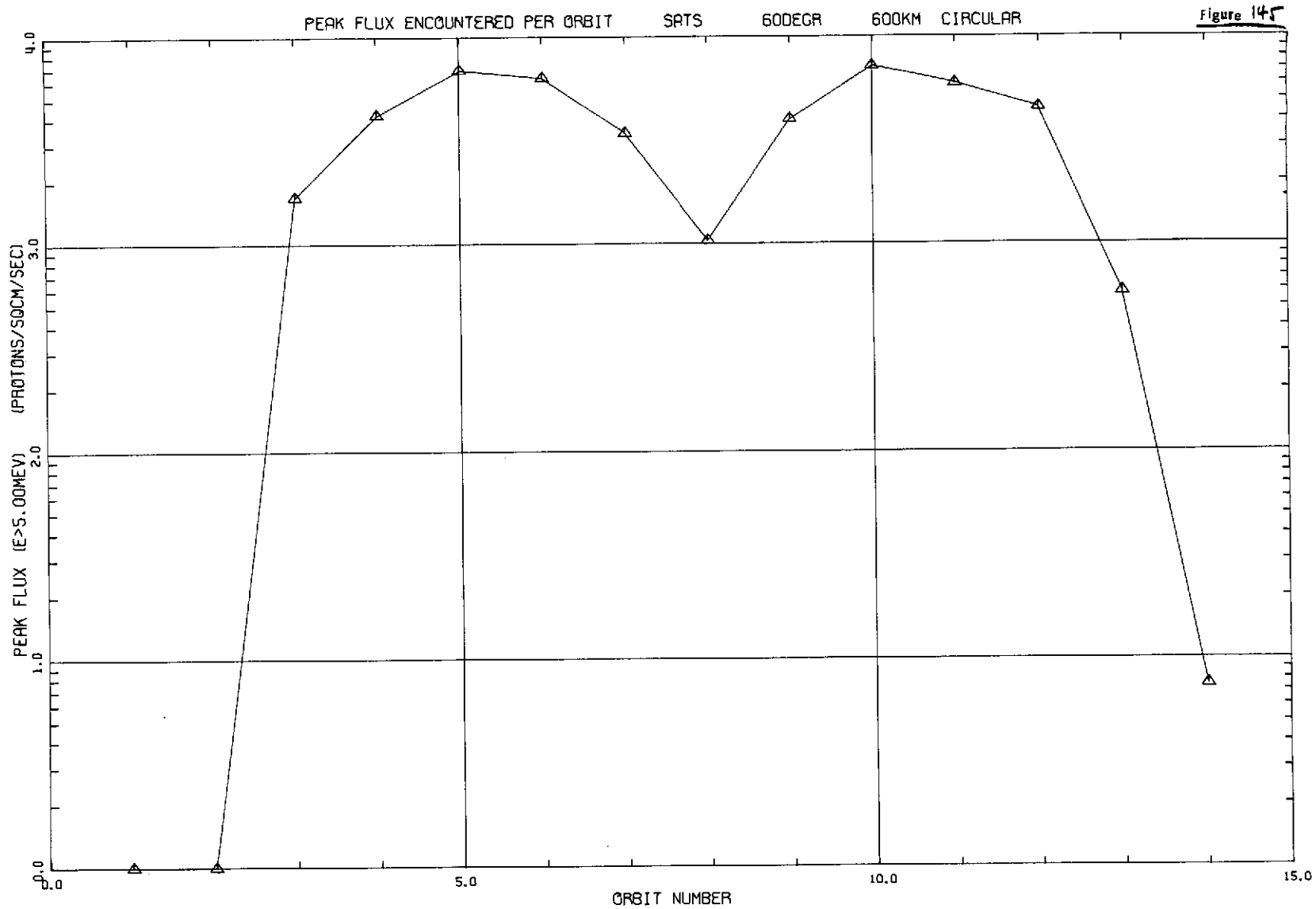












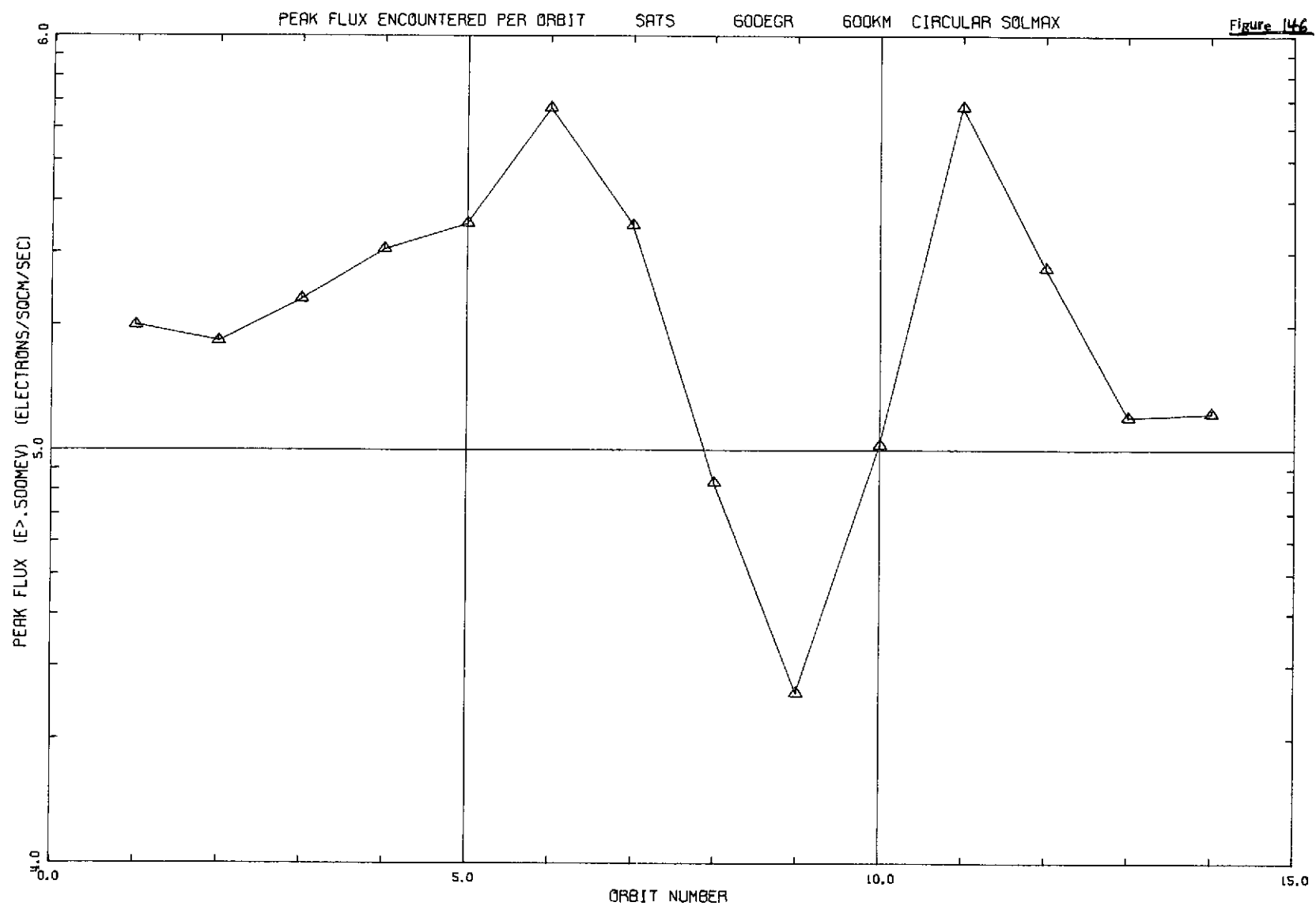
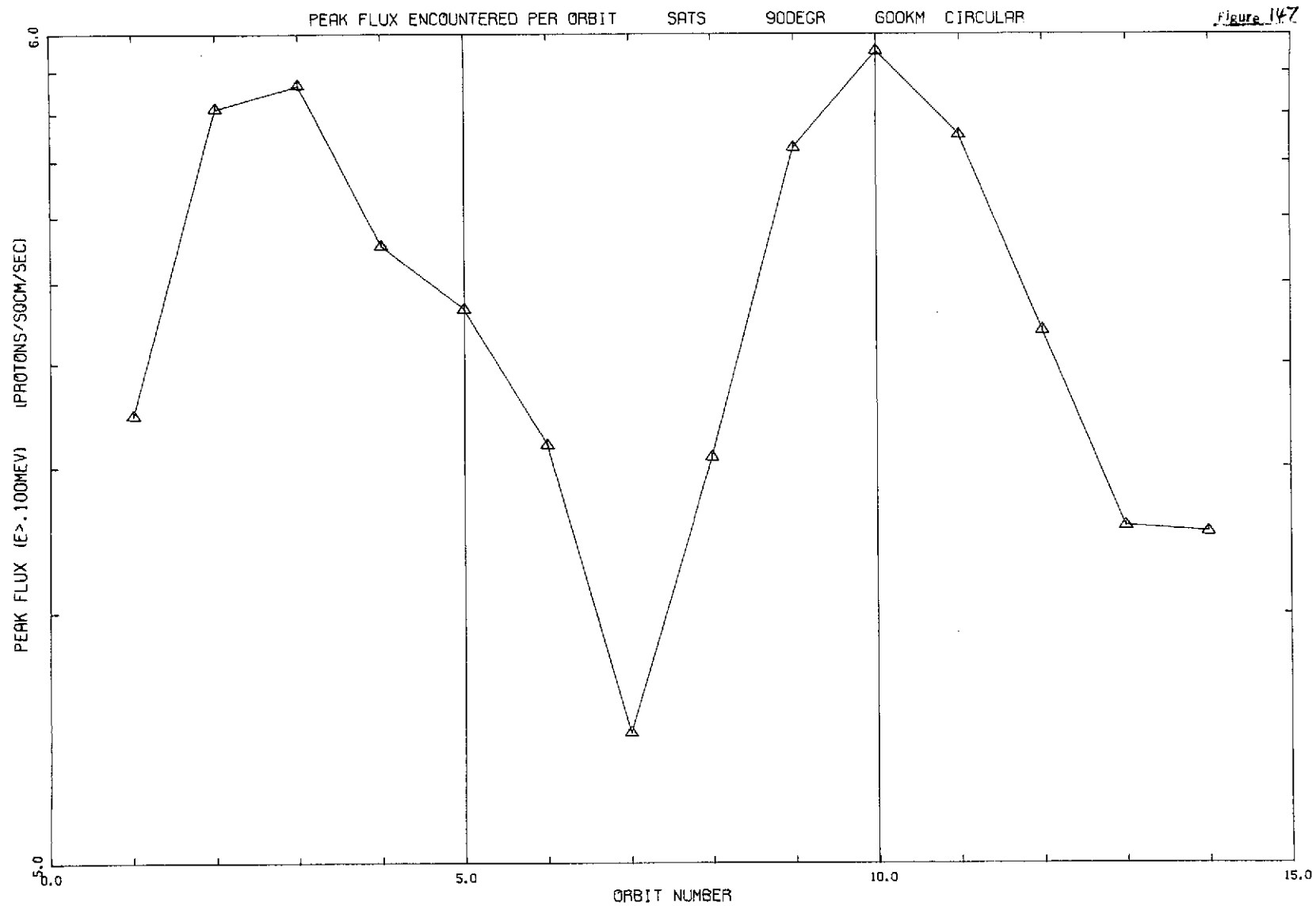
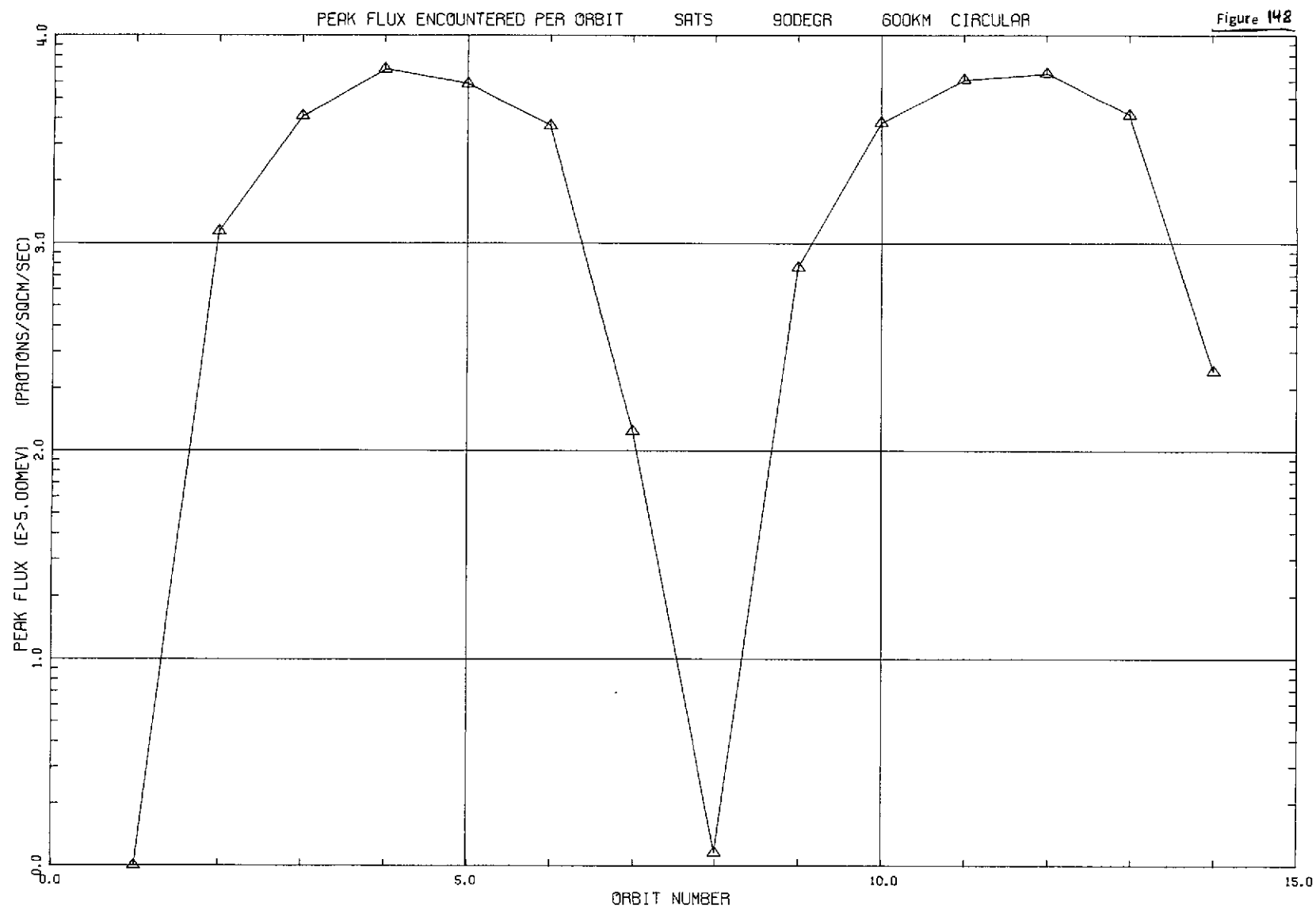
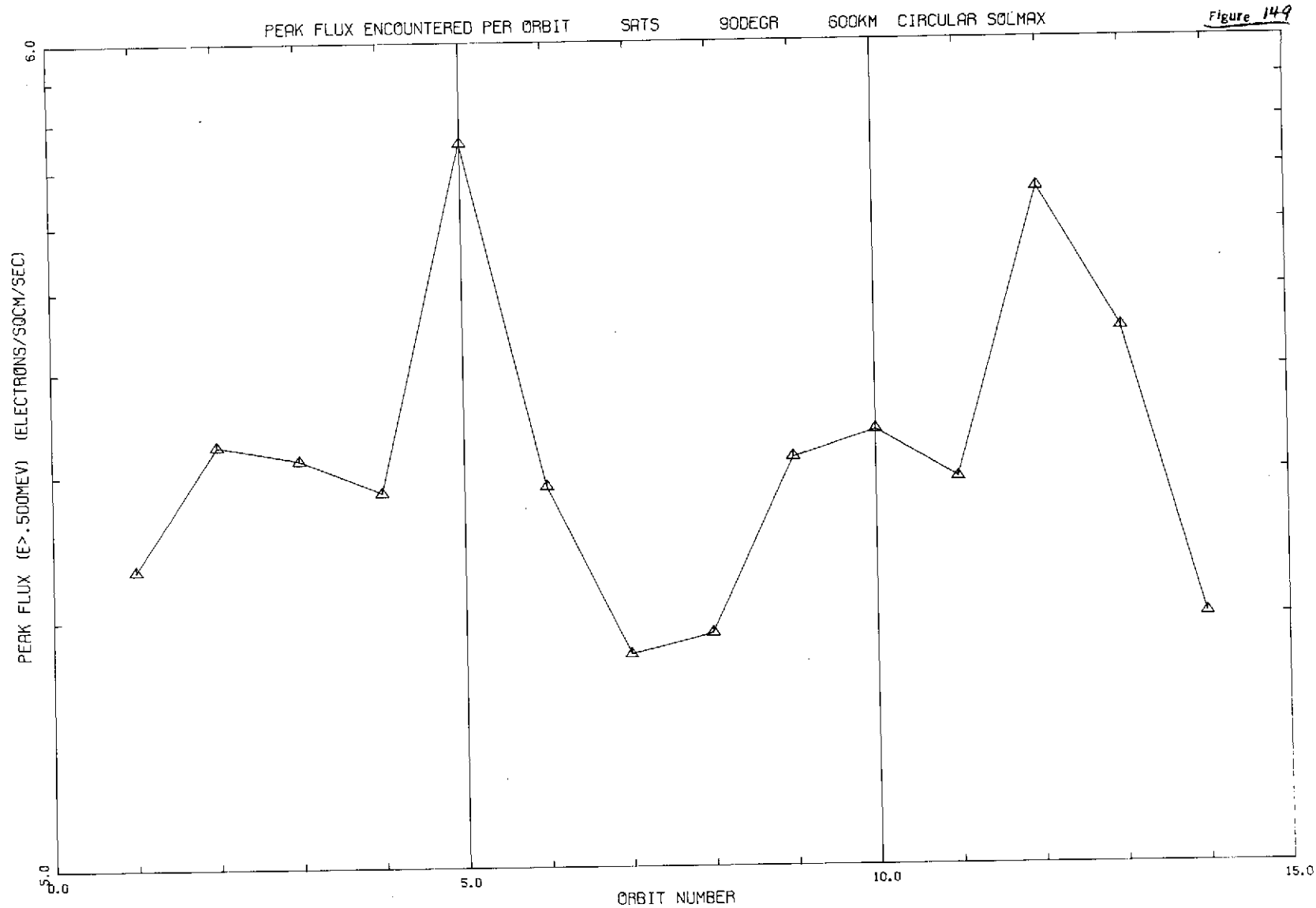


Figure 146







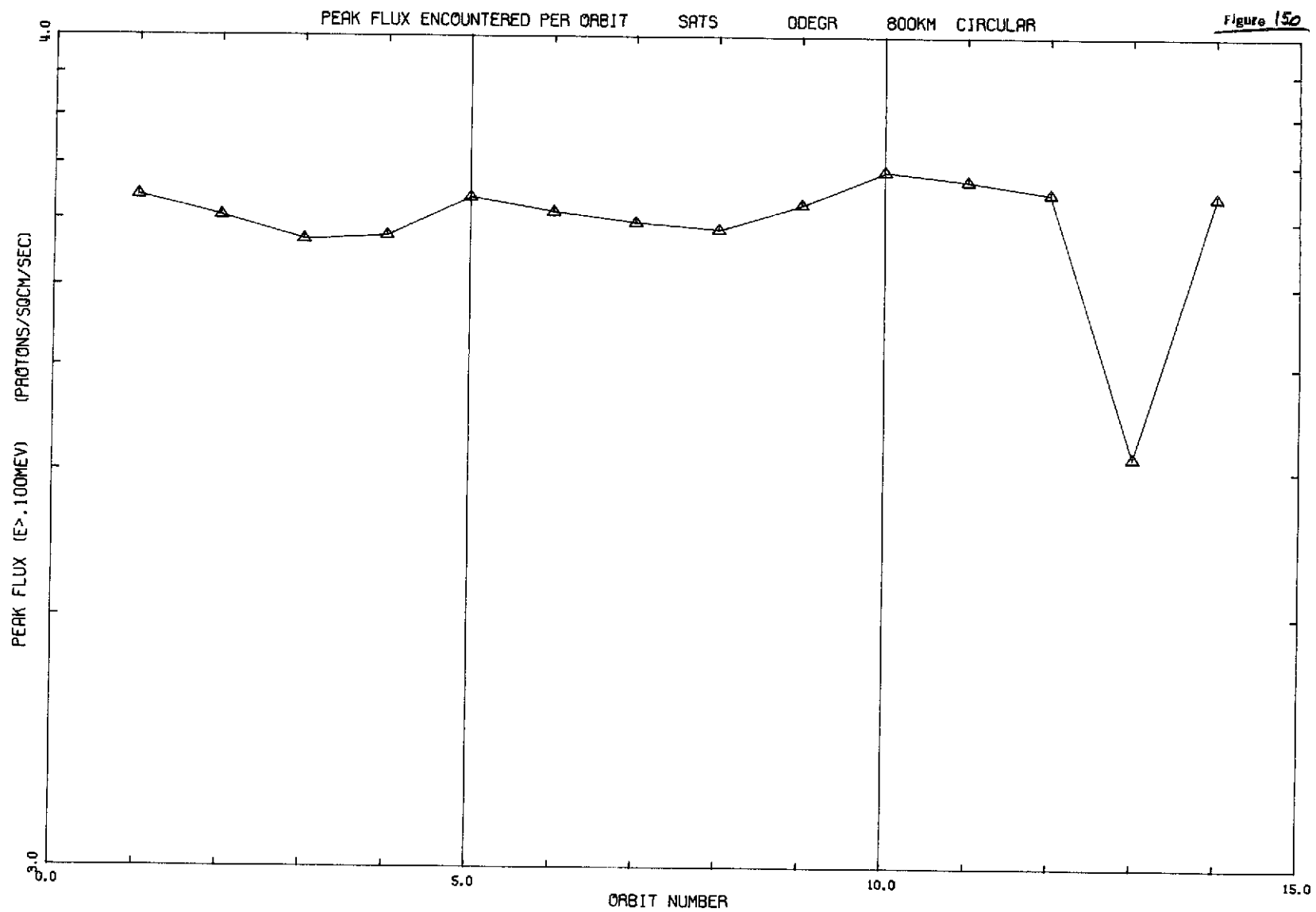
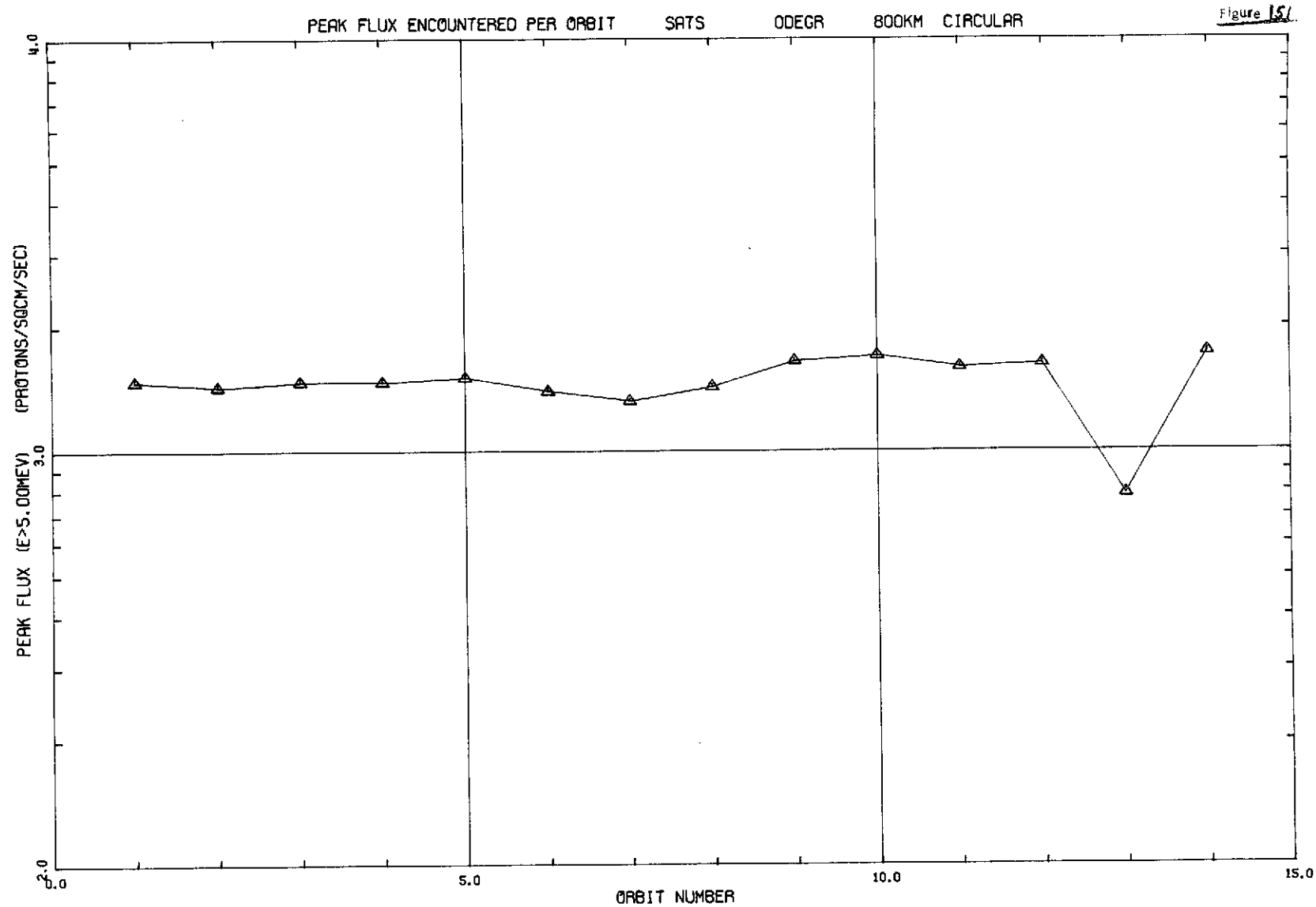
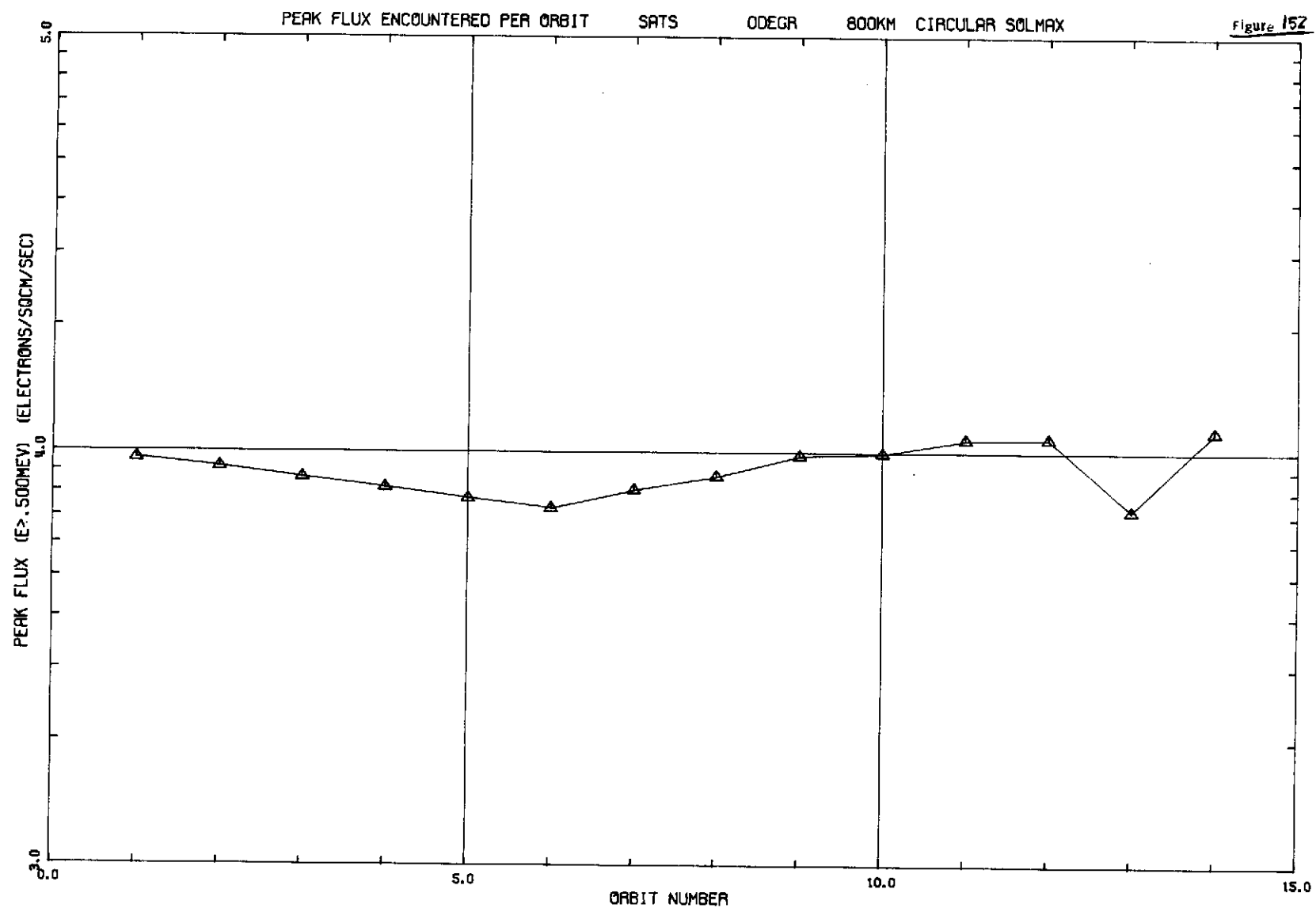


Figure 150





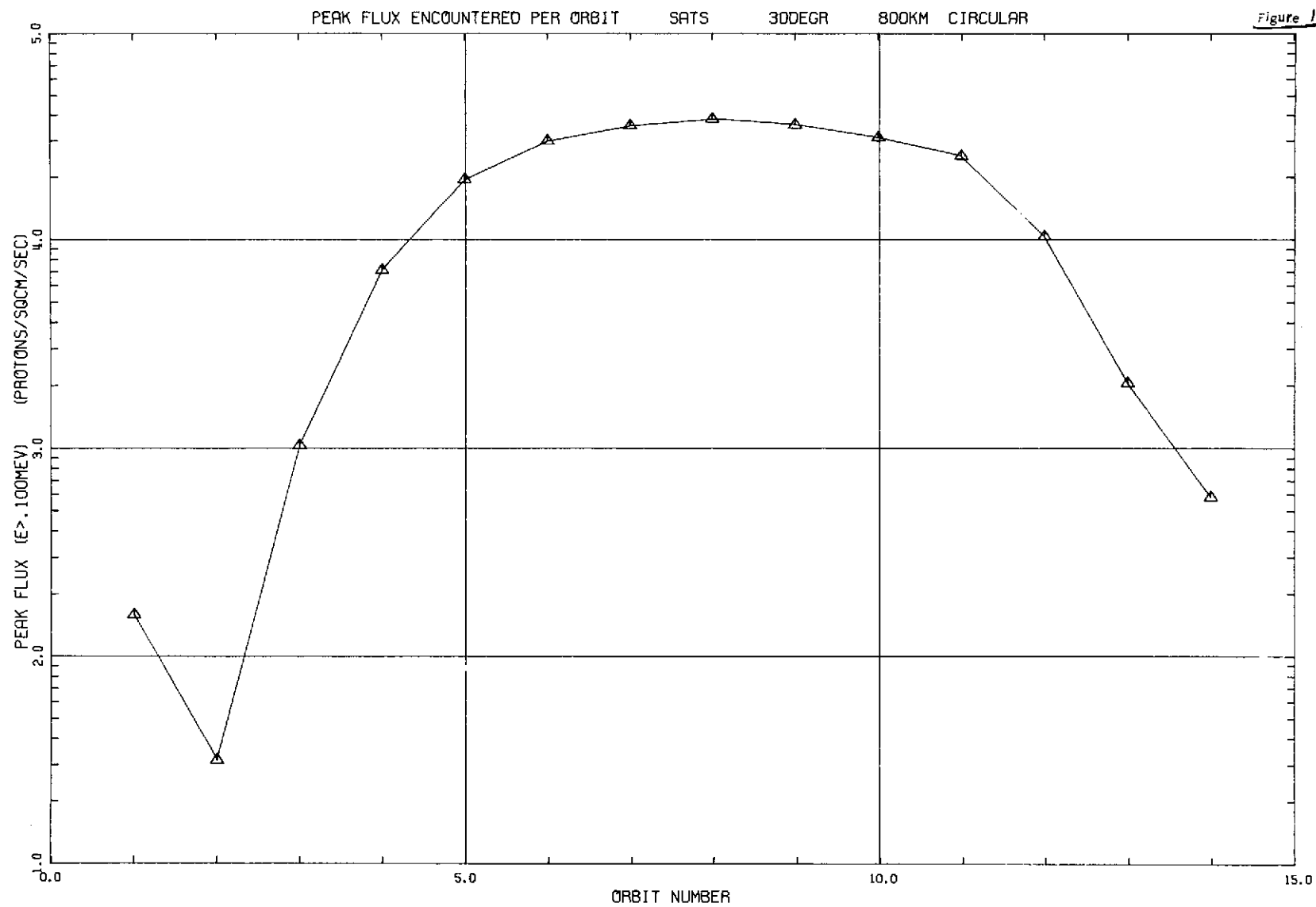
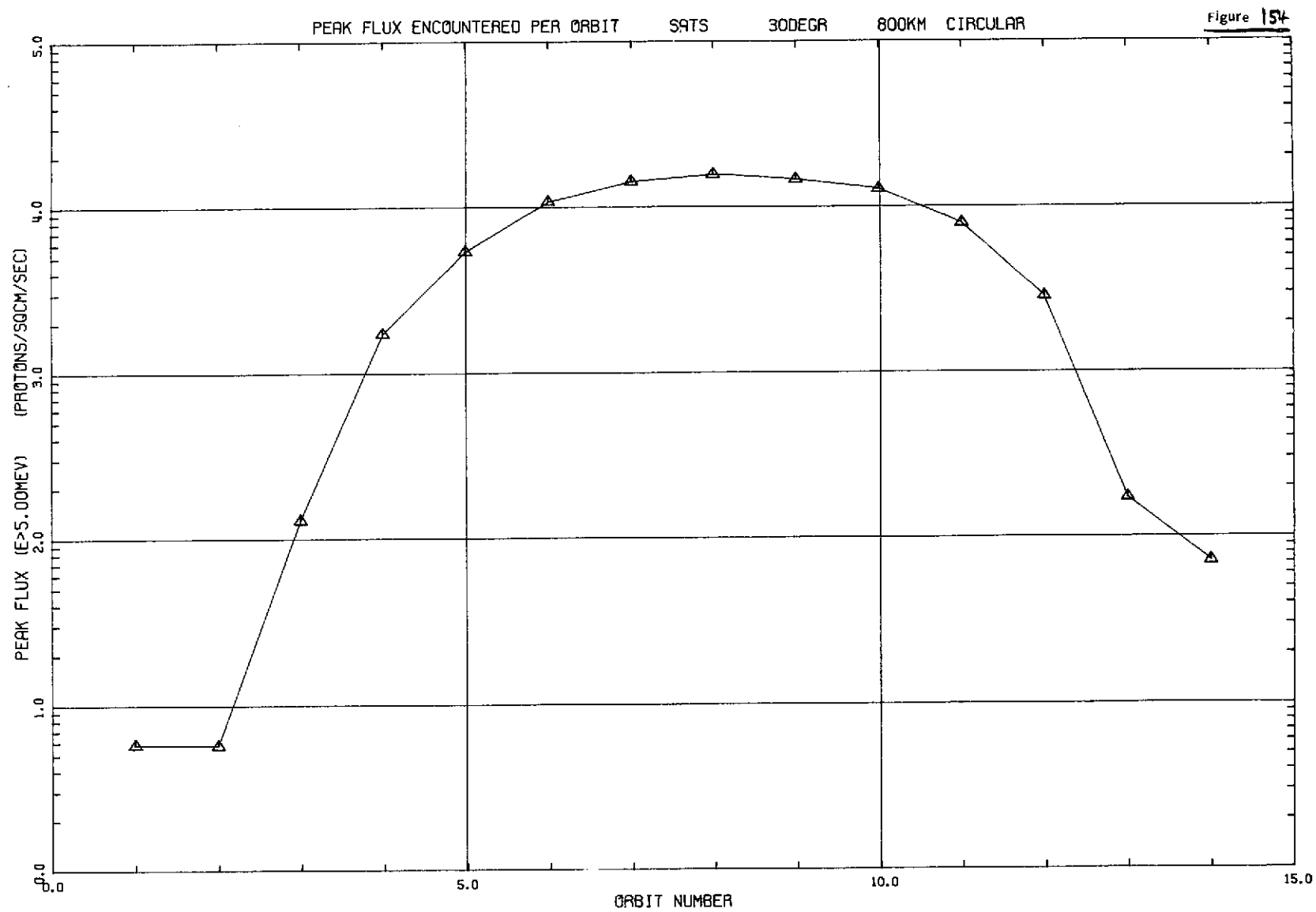
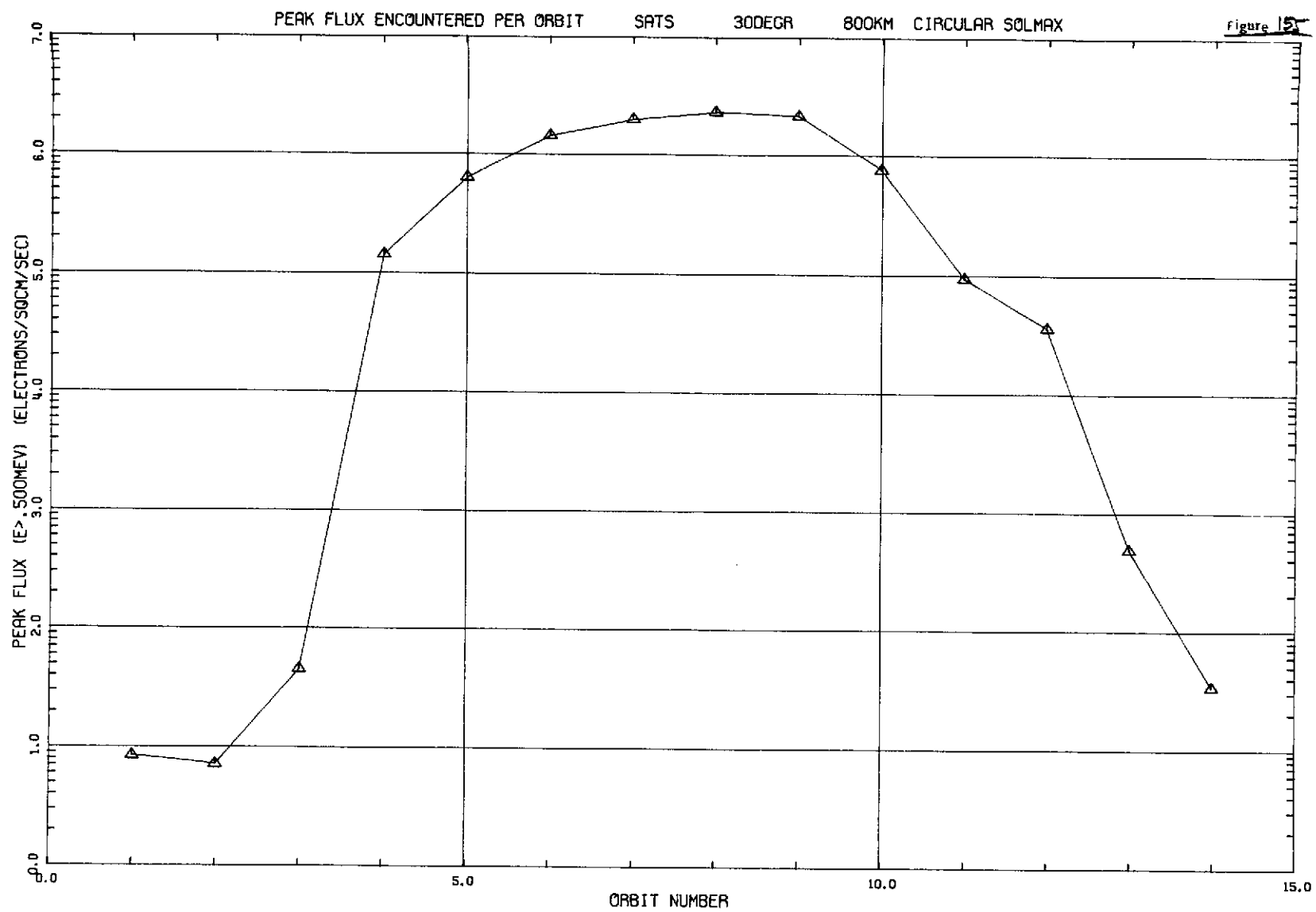
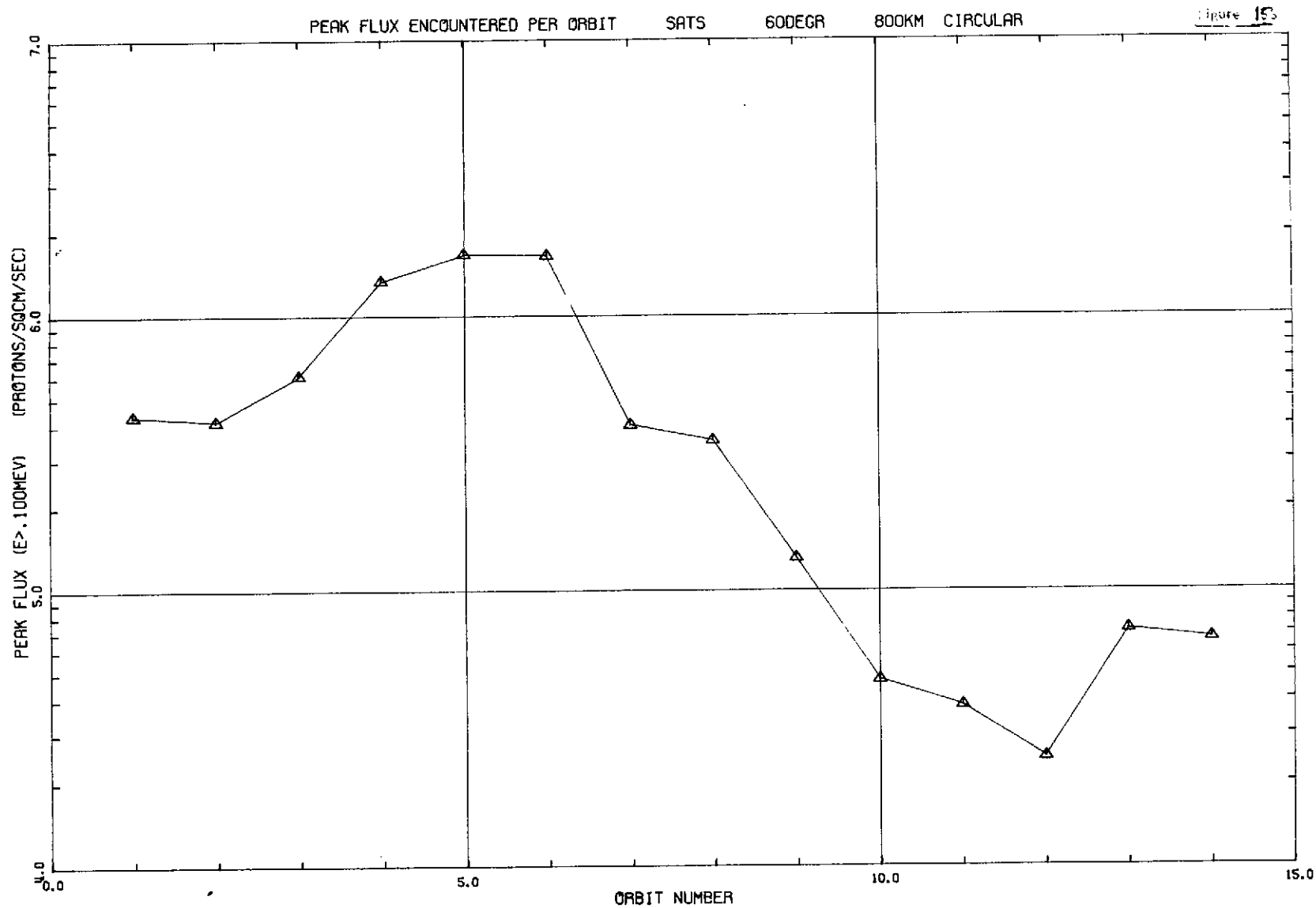
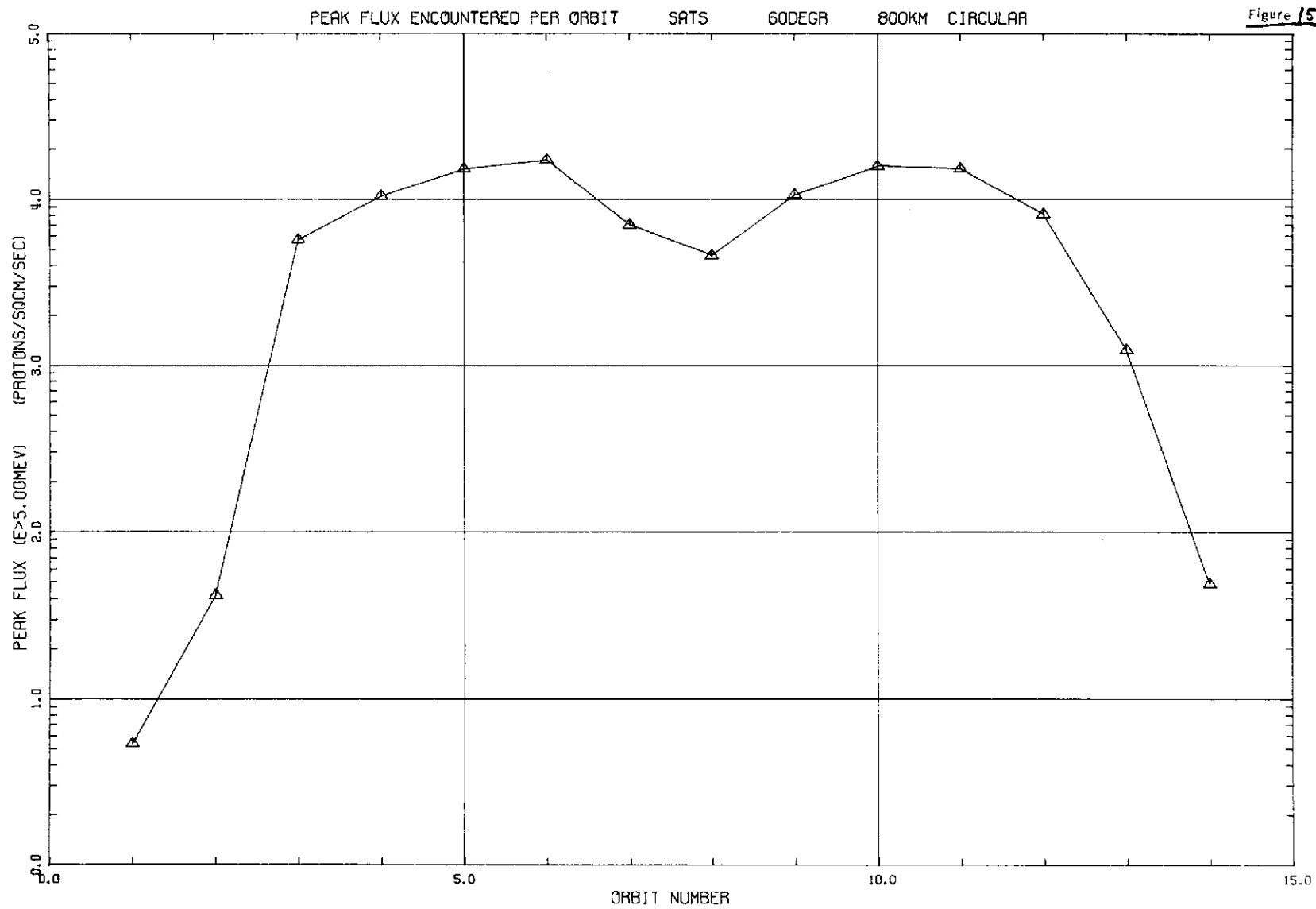


Figure 153









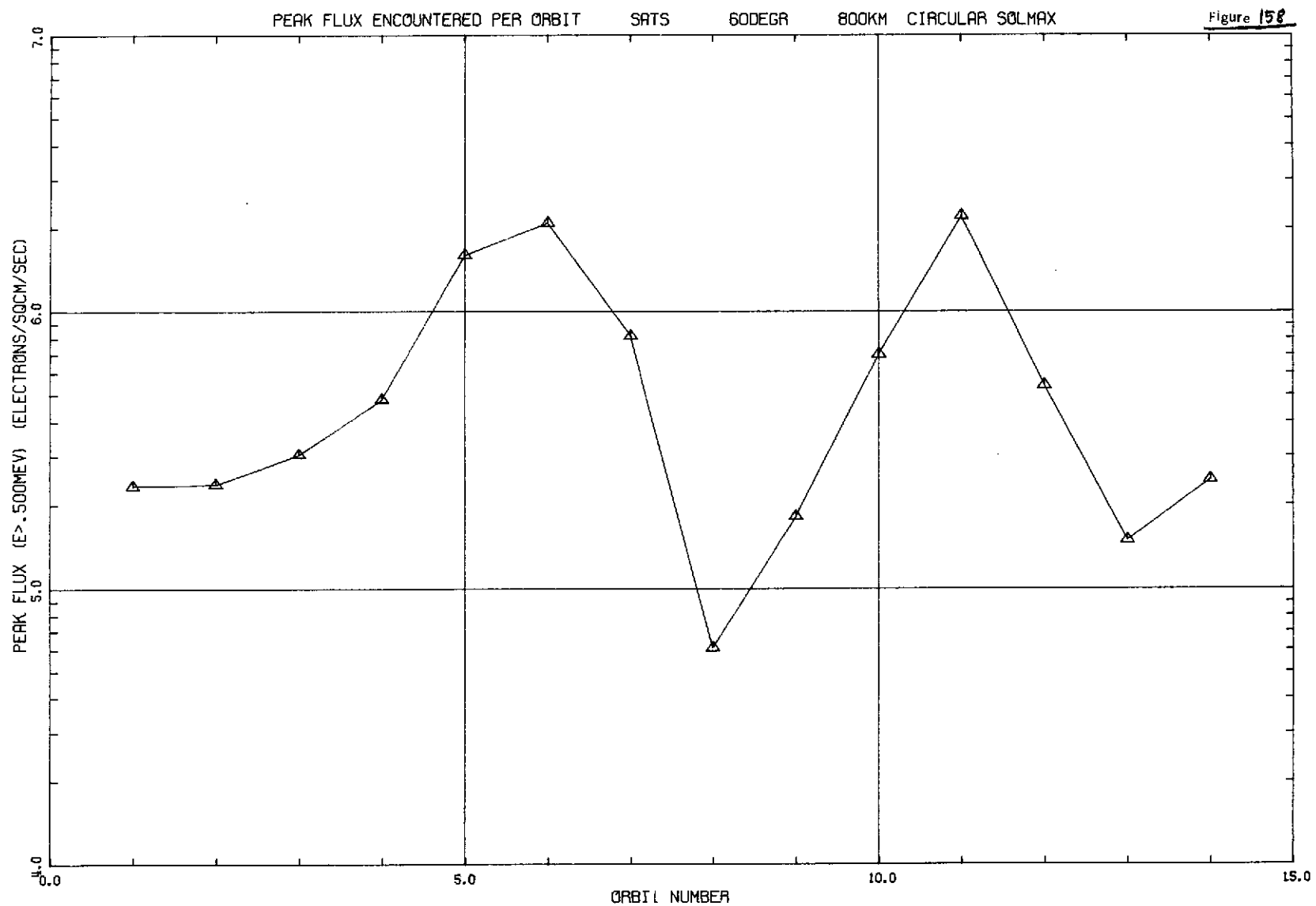


Figure 158

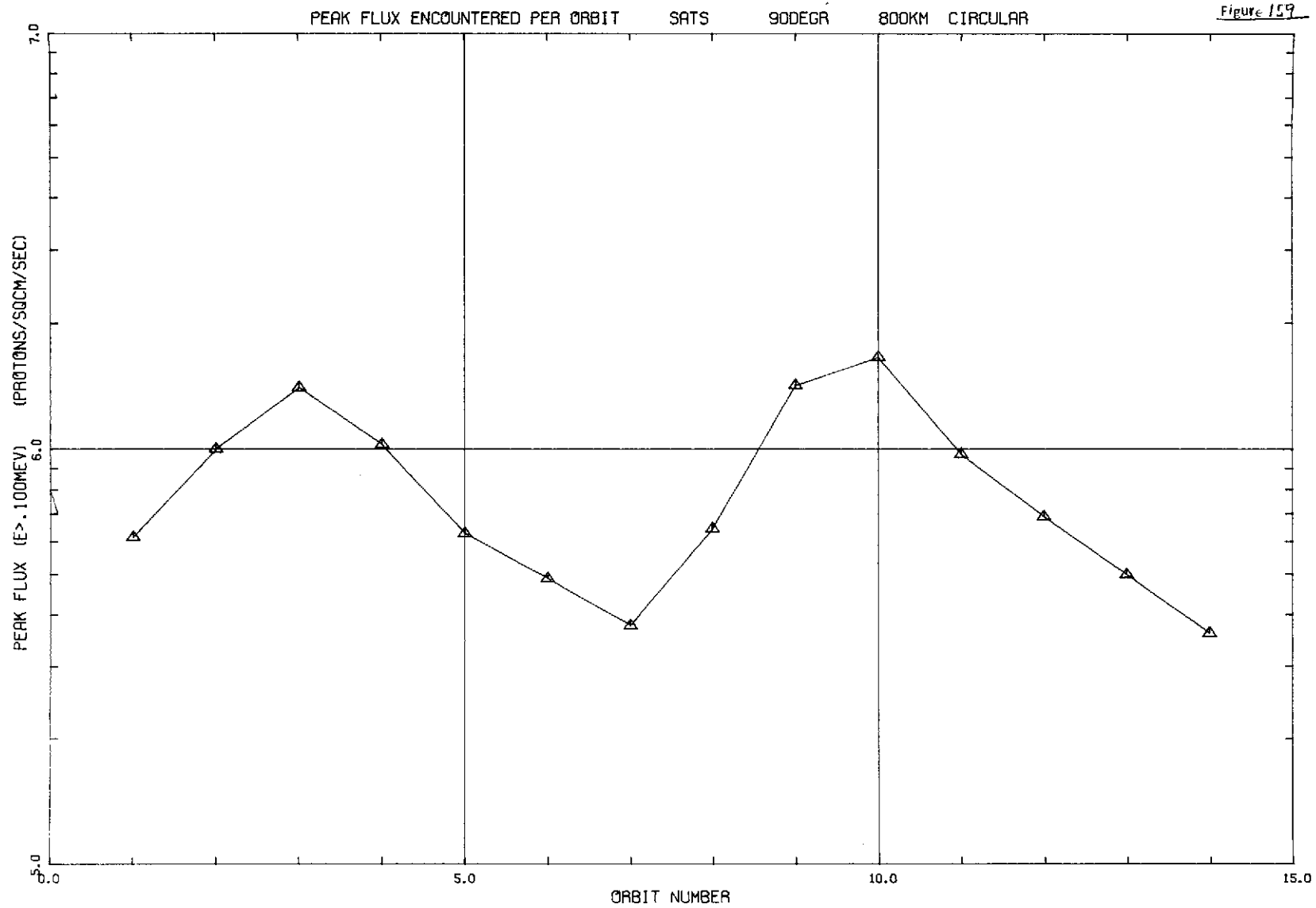
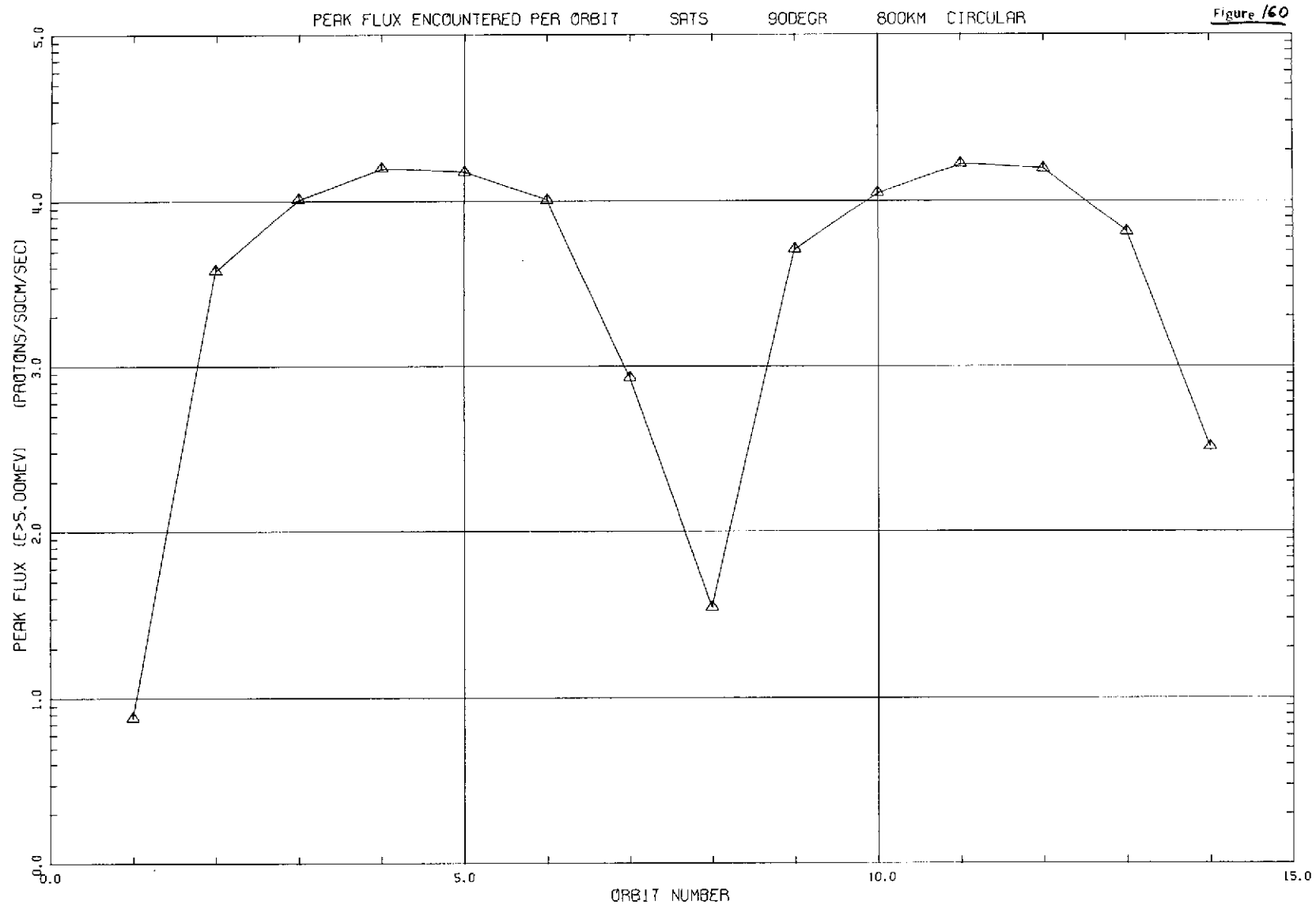
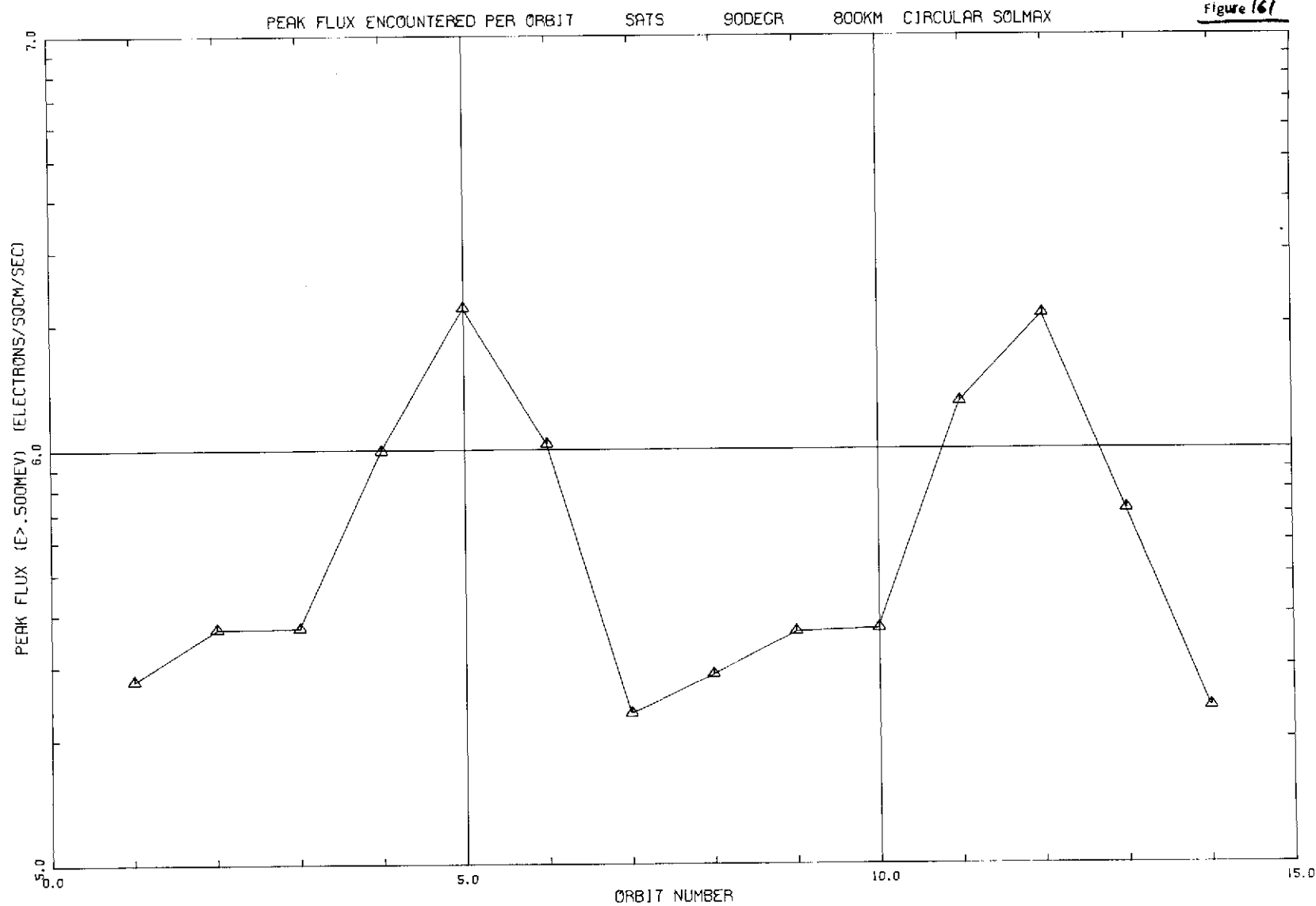


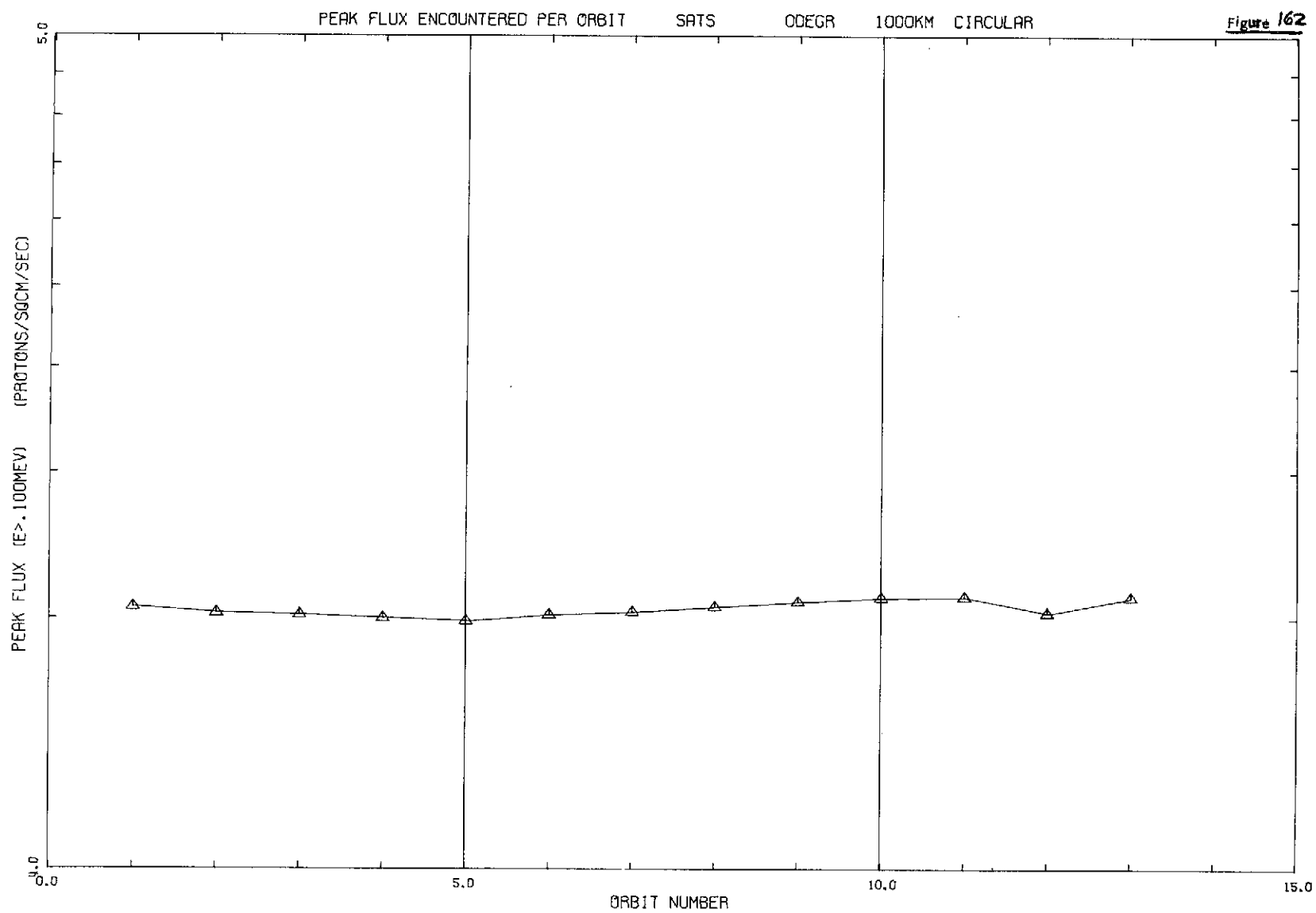
Figure 160

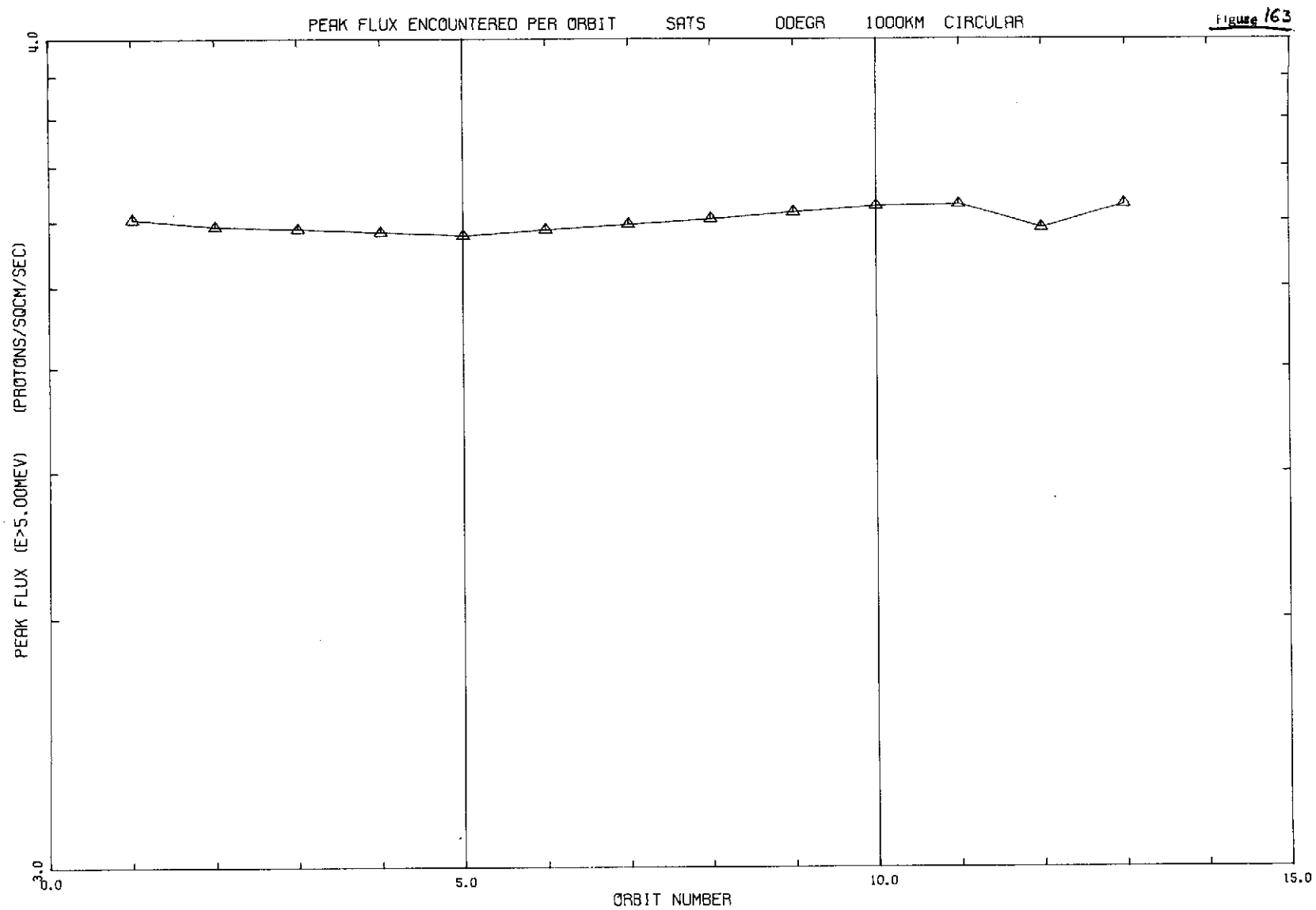


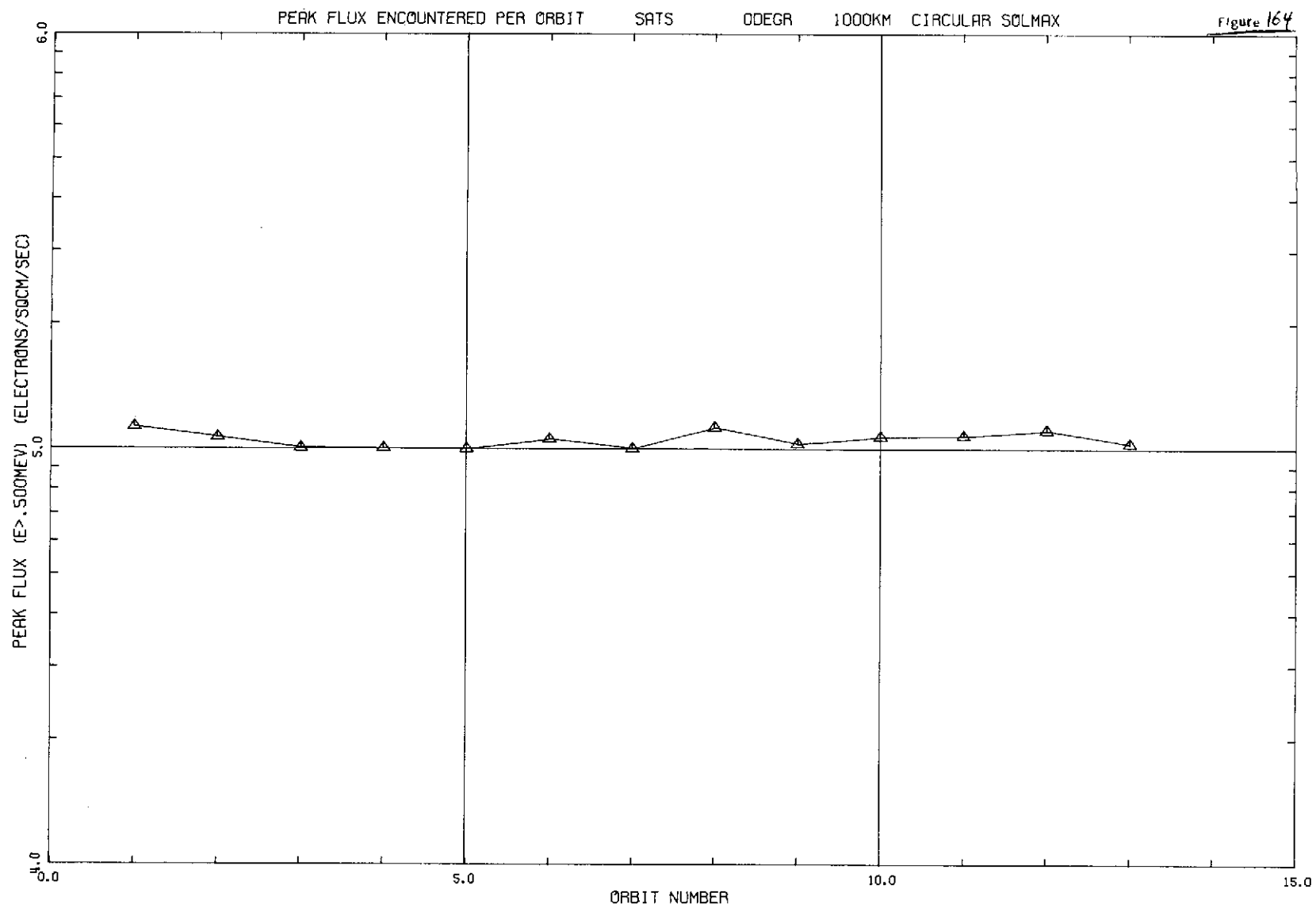
65

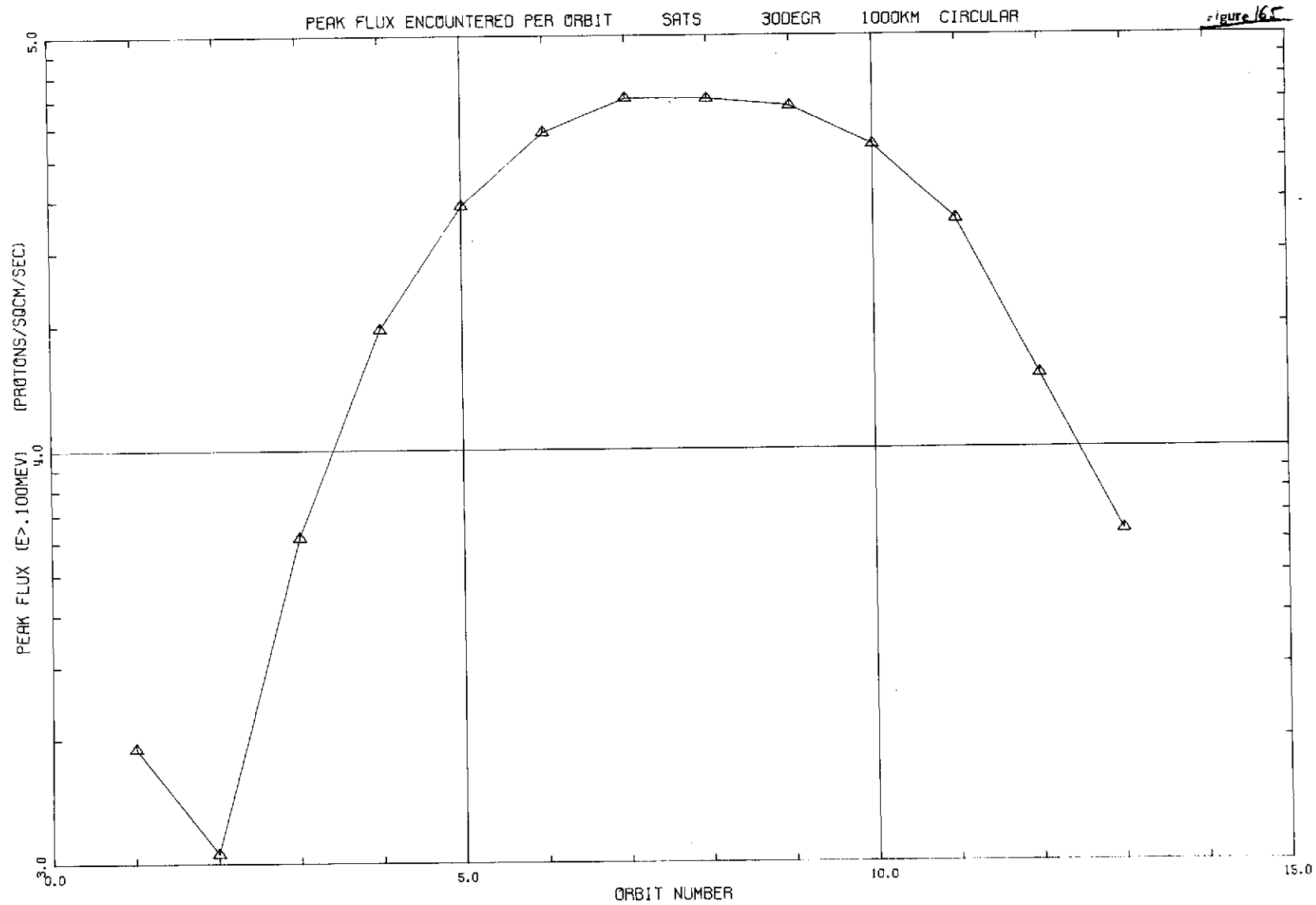
Figure 161











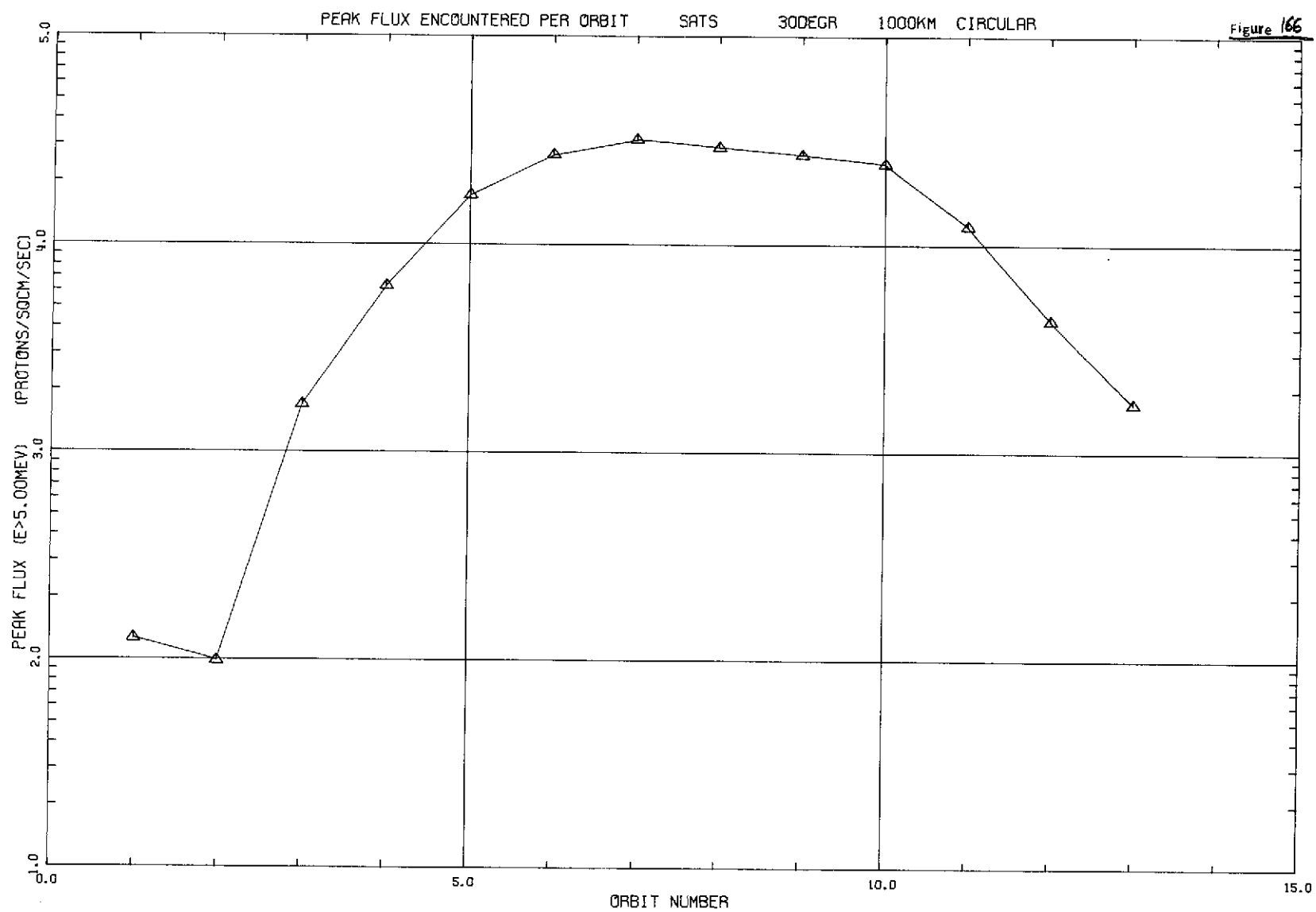
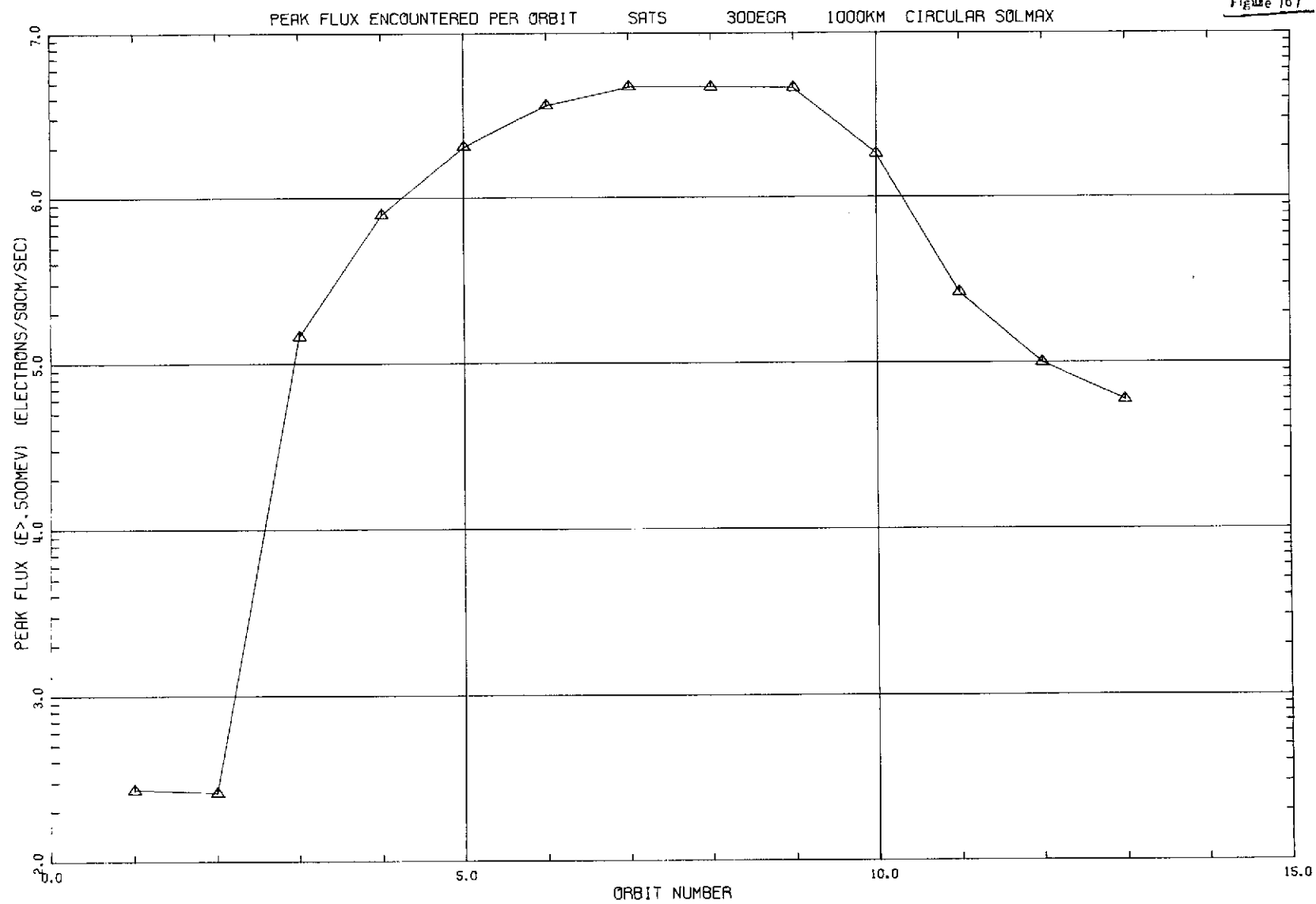
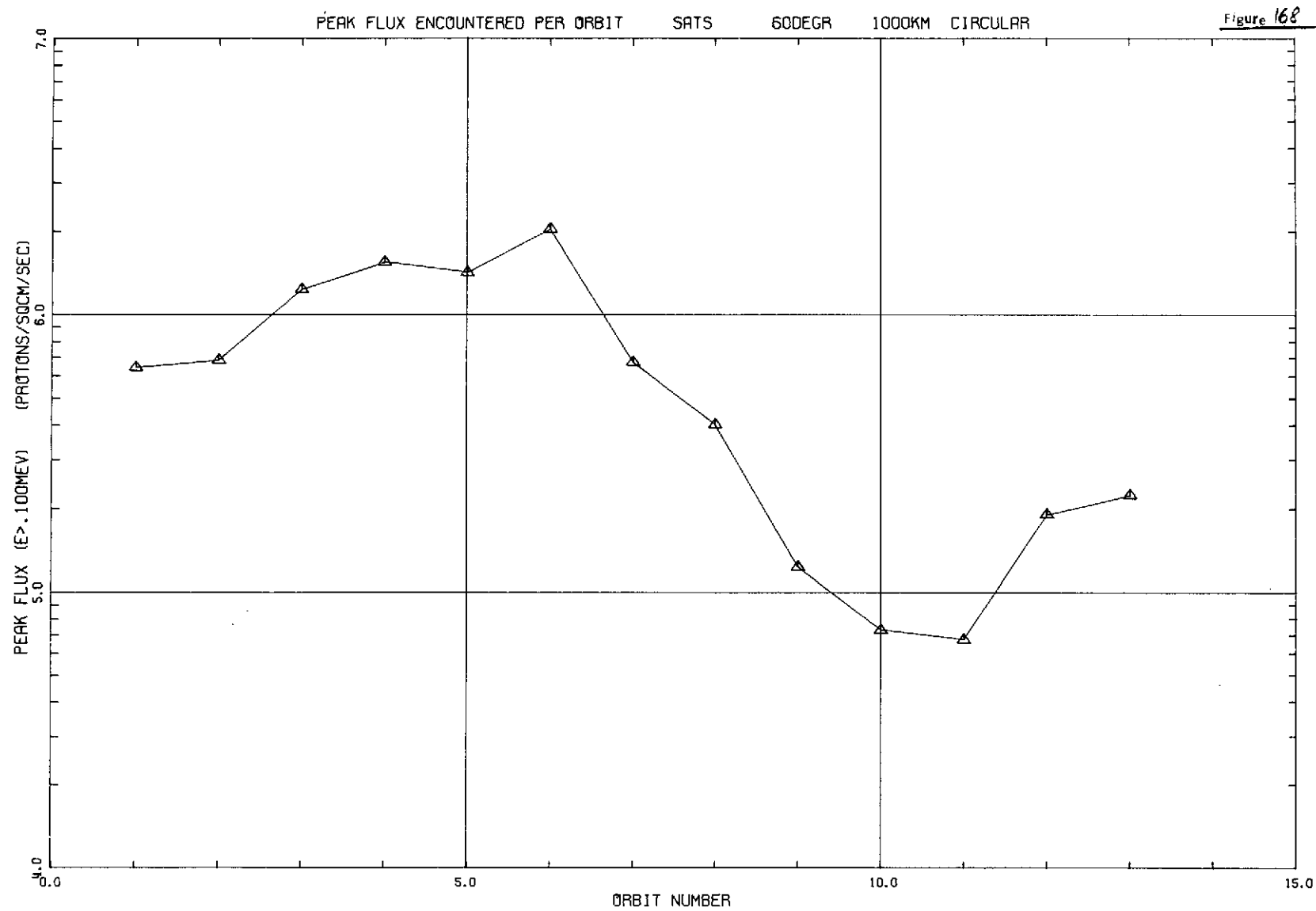
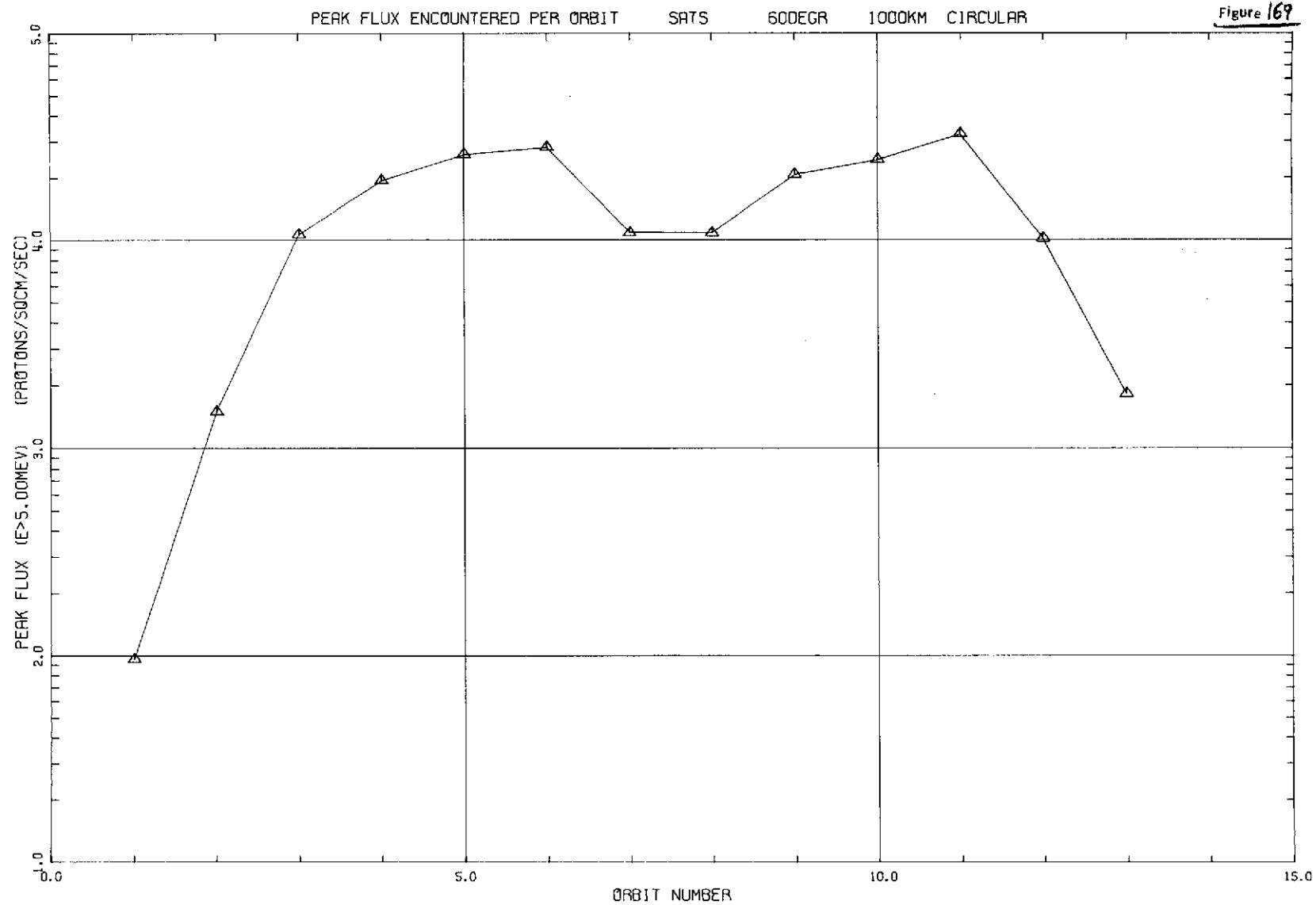


Figure 167







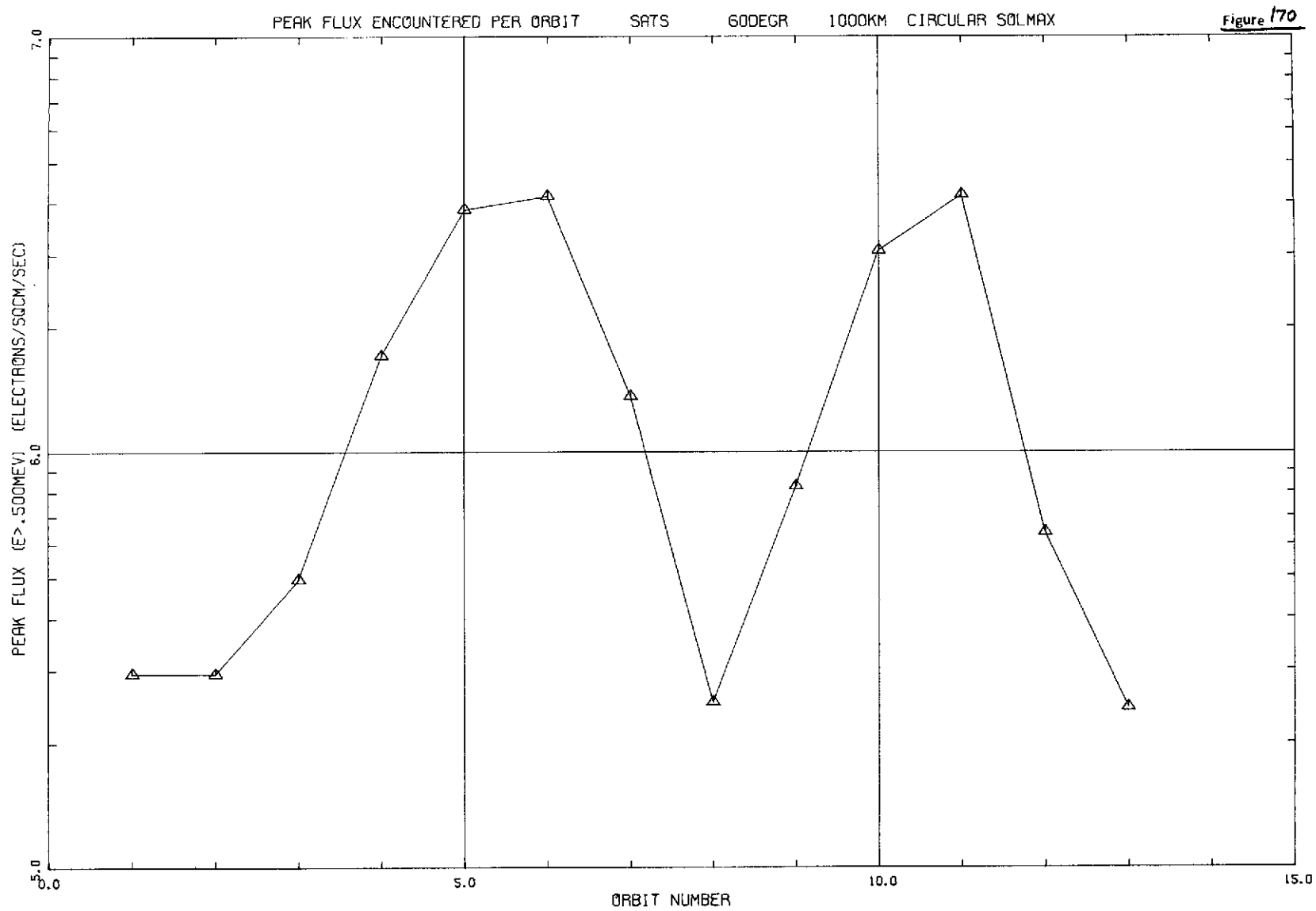
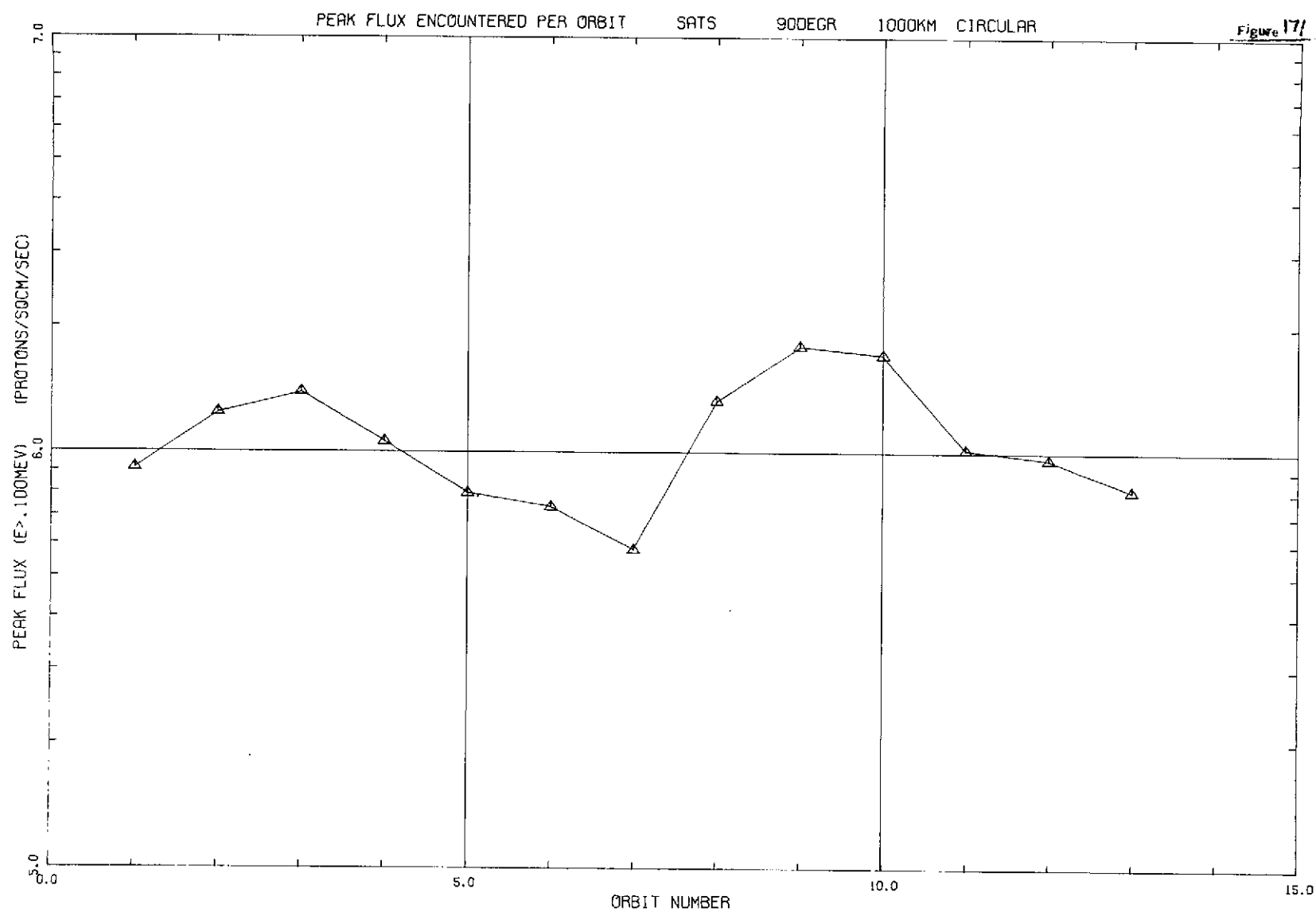
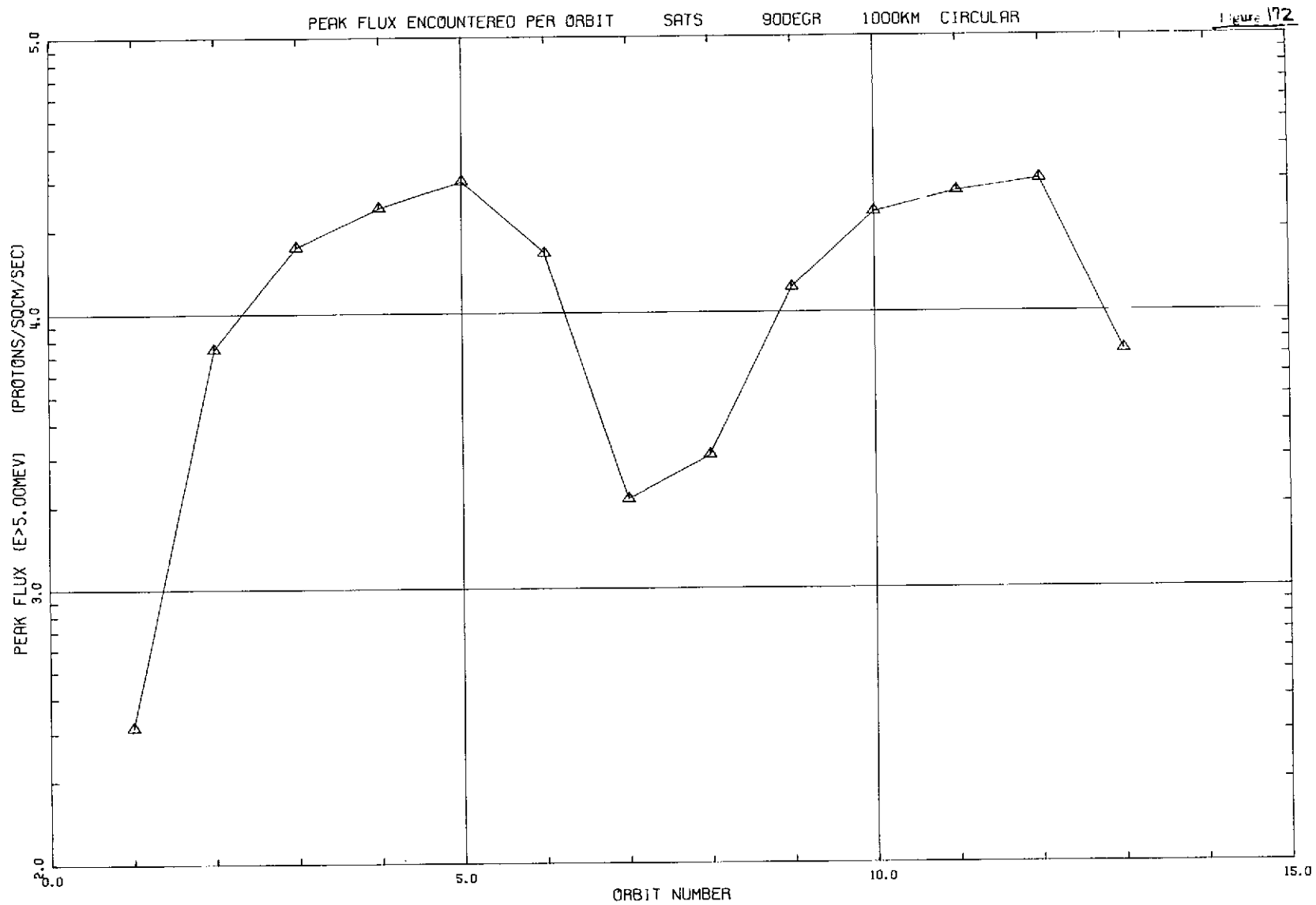
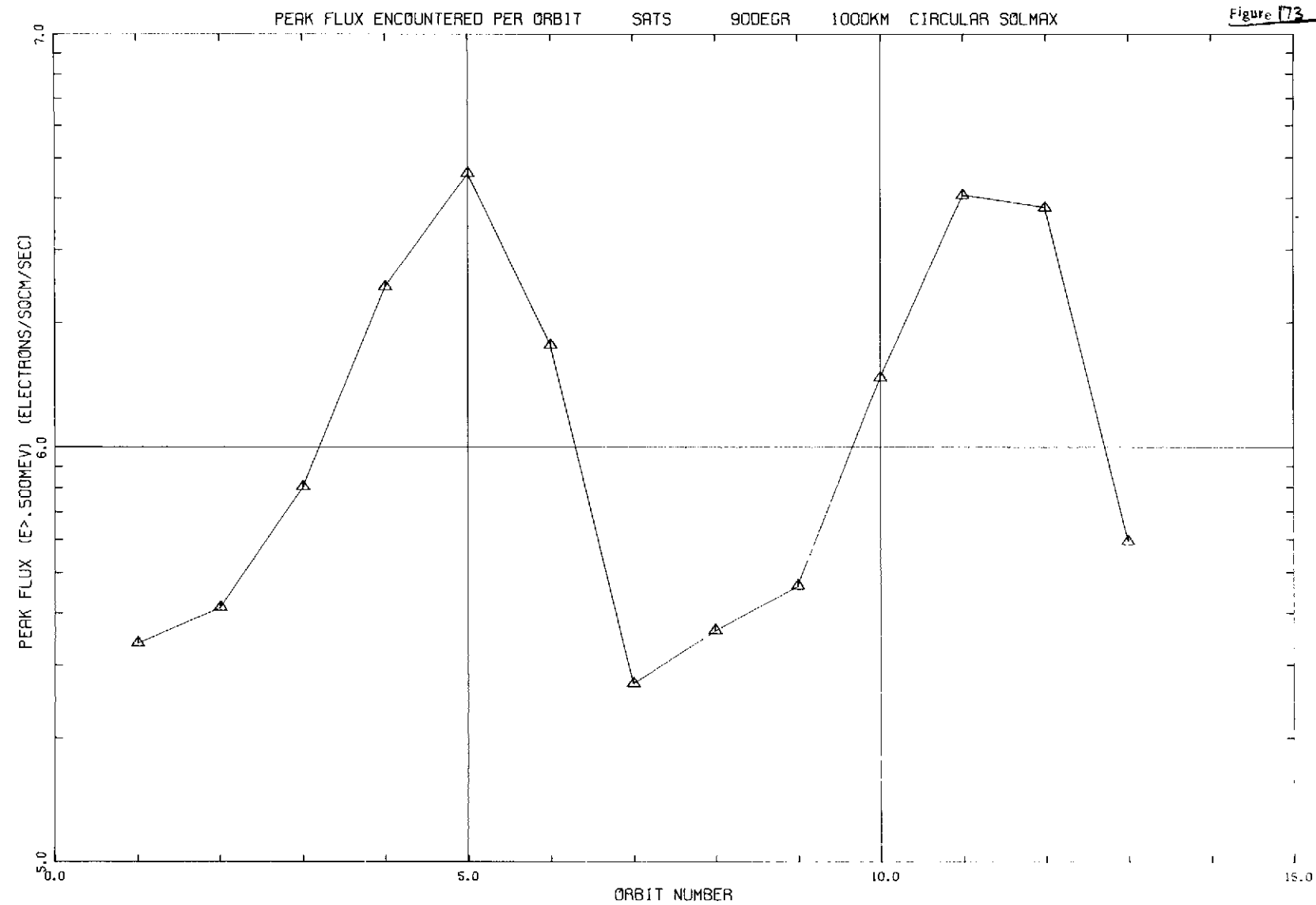


Figure 170

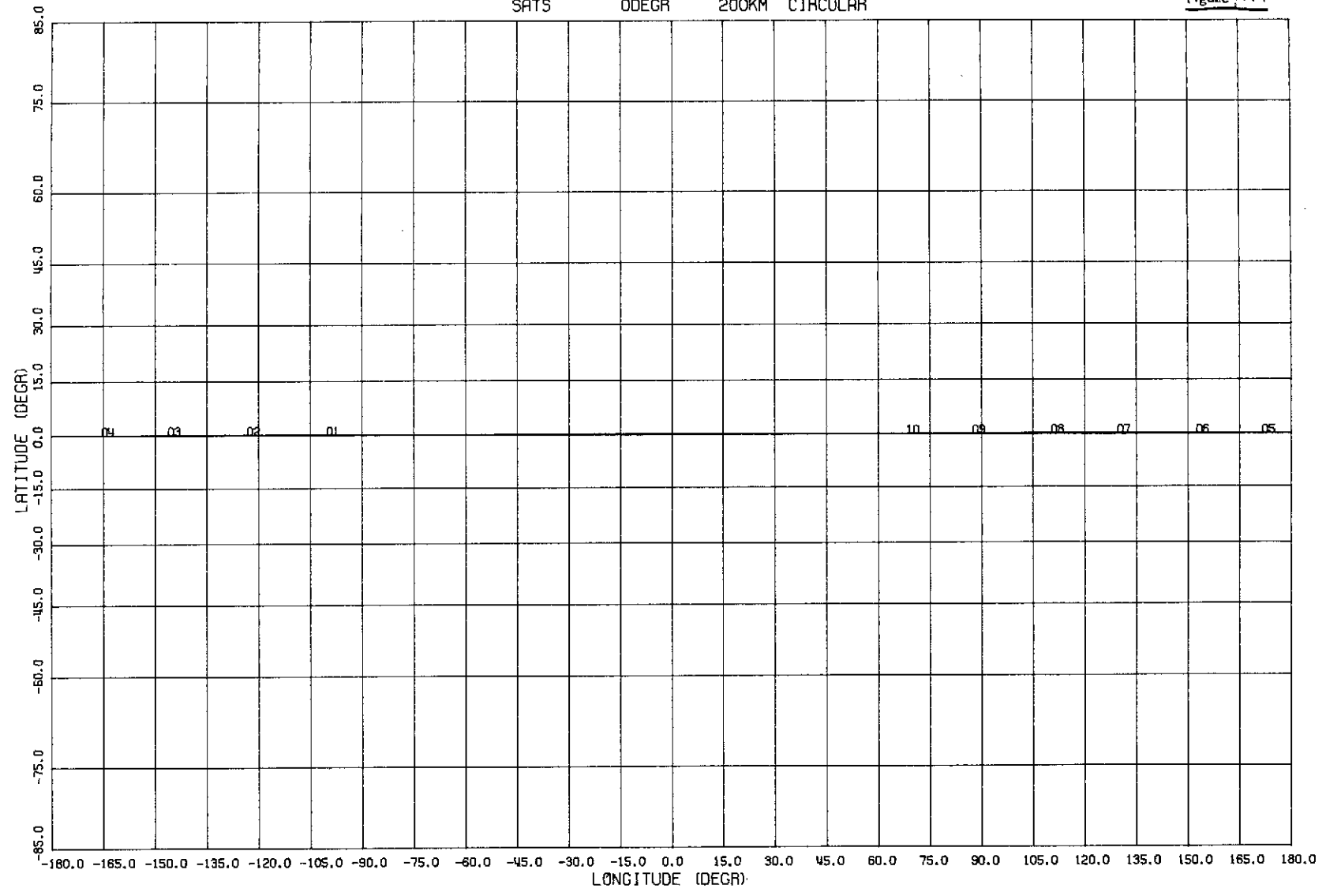






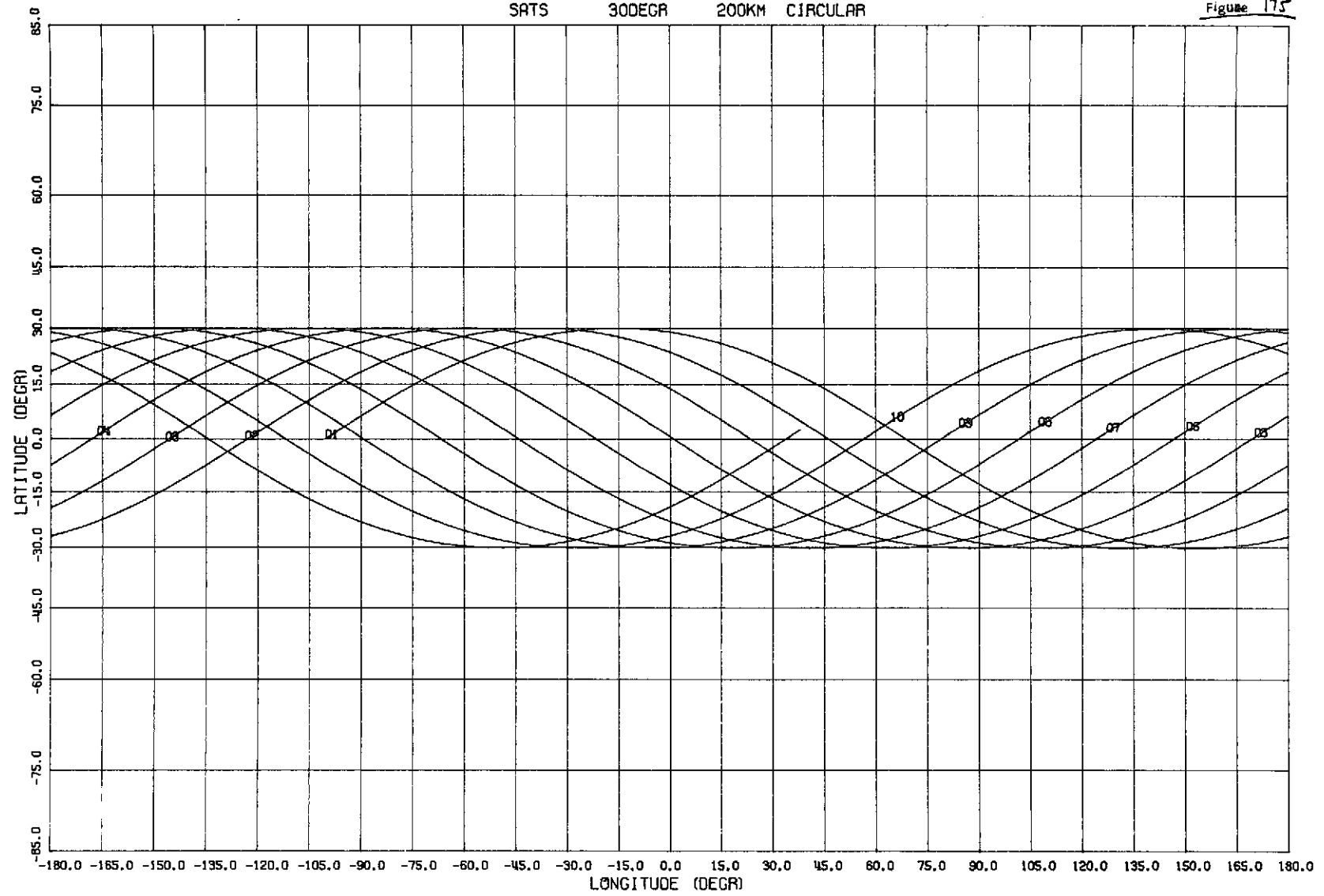
SATS ODEGR 200KM CIRCULAR

Figure 174



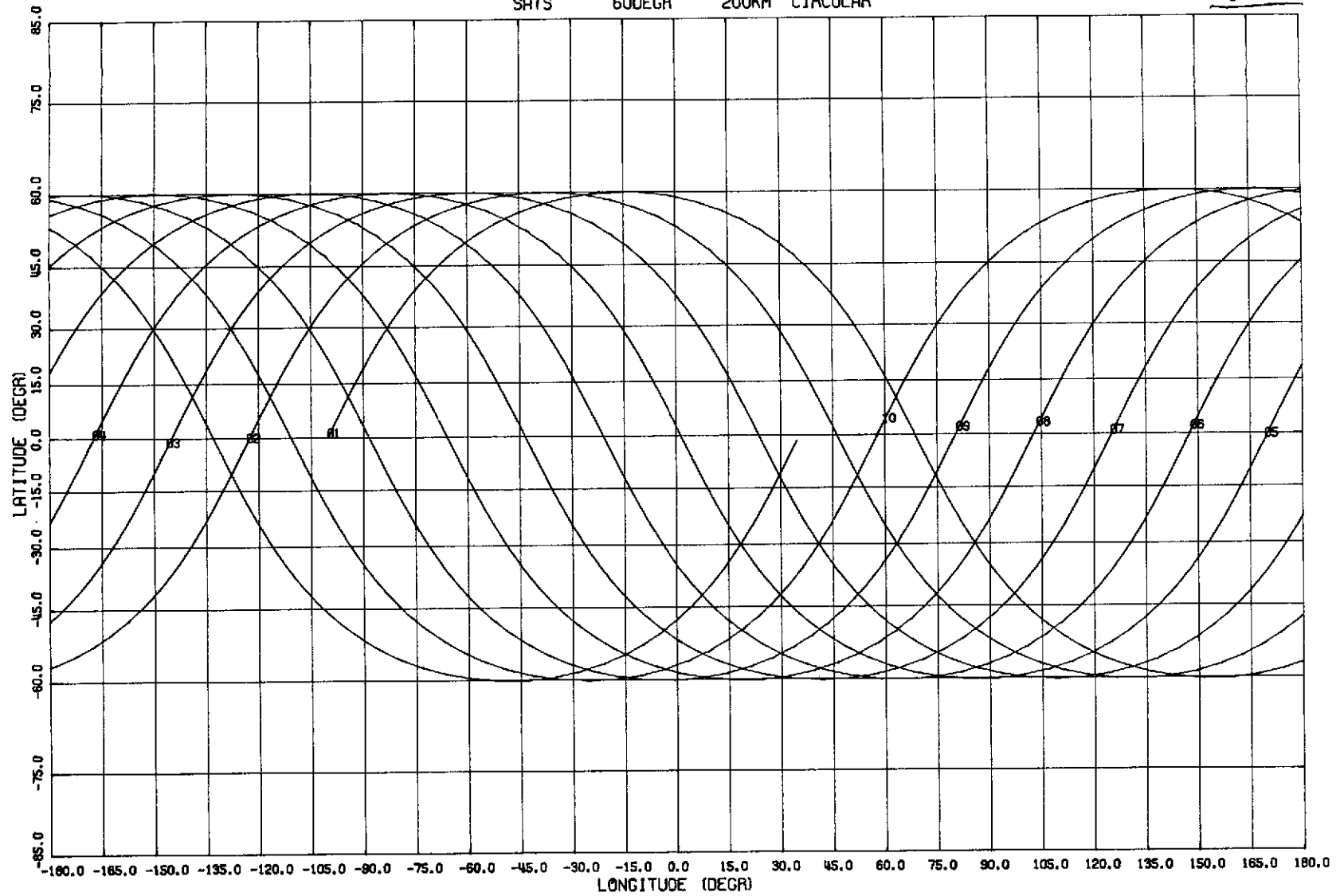
SATS 30DEGR 200KM CIRCULAR

Figure 175



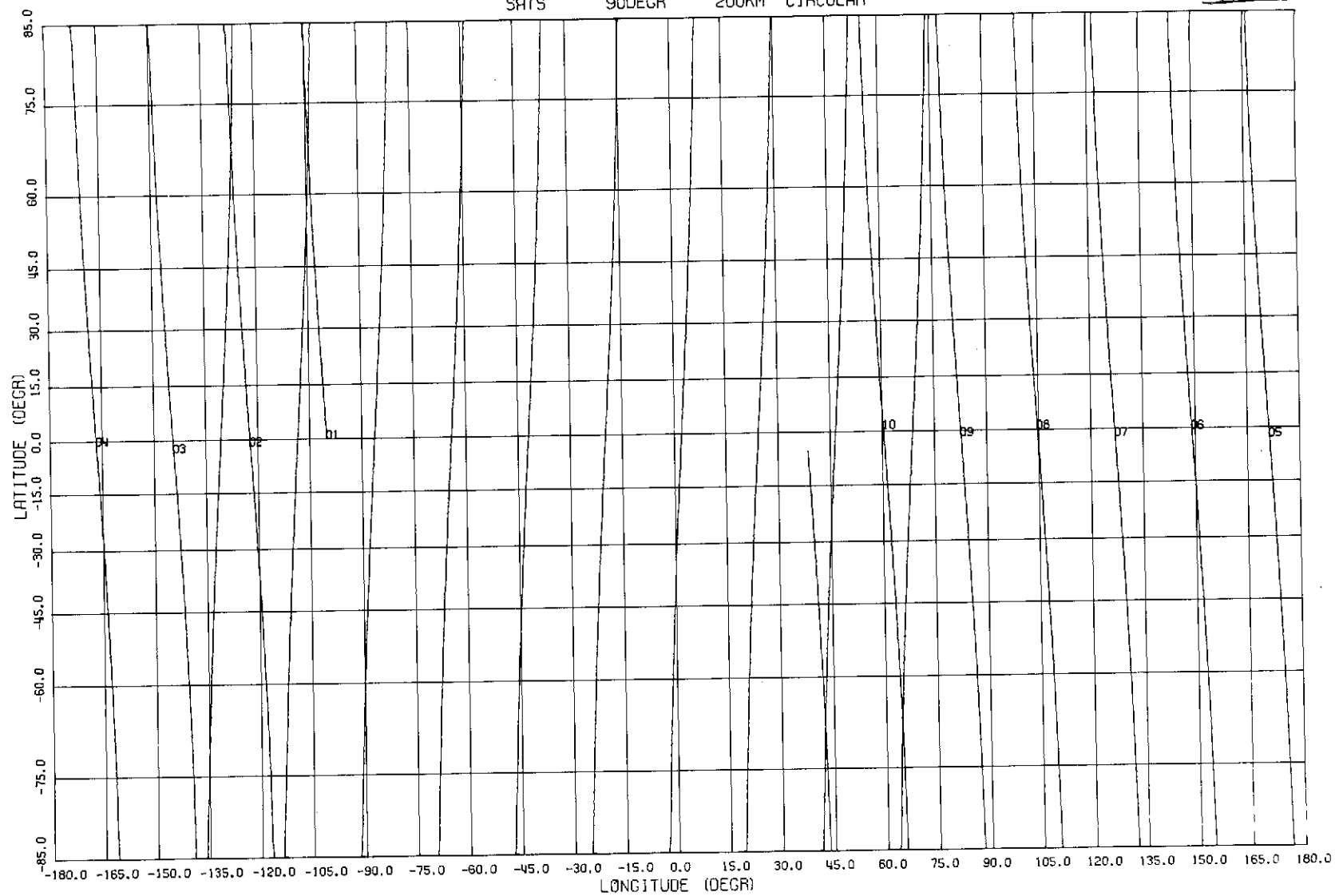
SATS 600EGR 200KM CIRCULAR

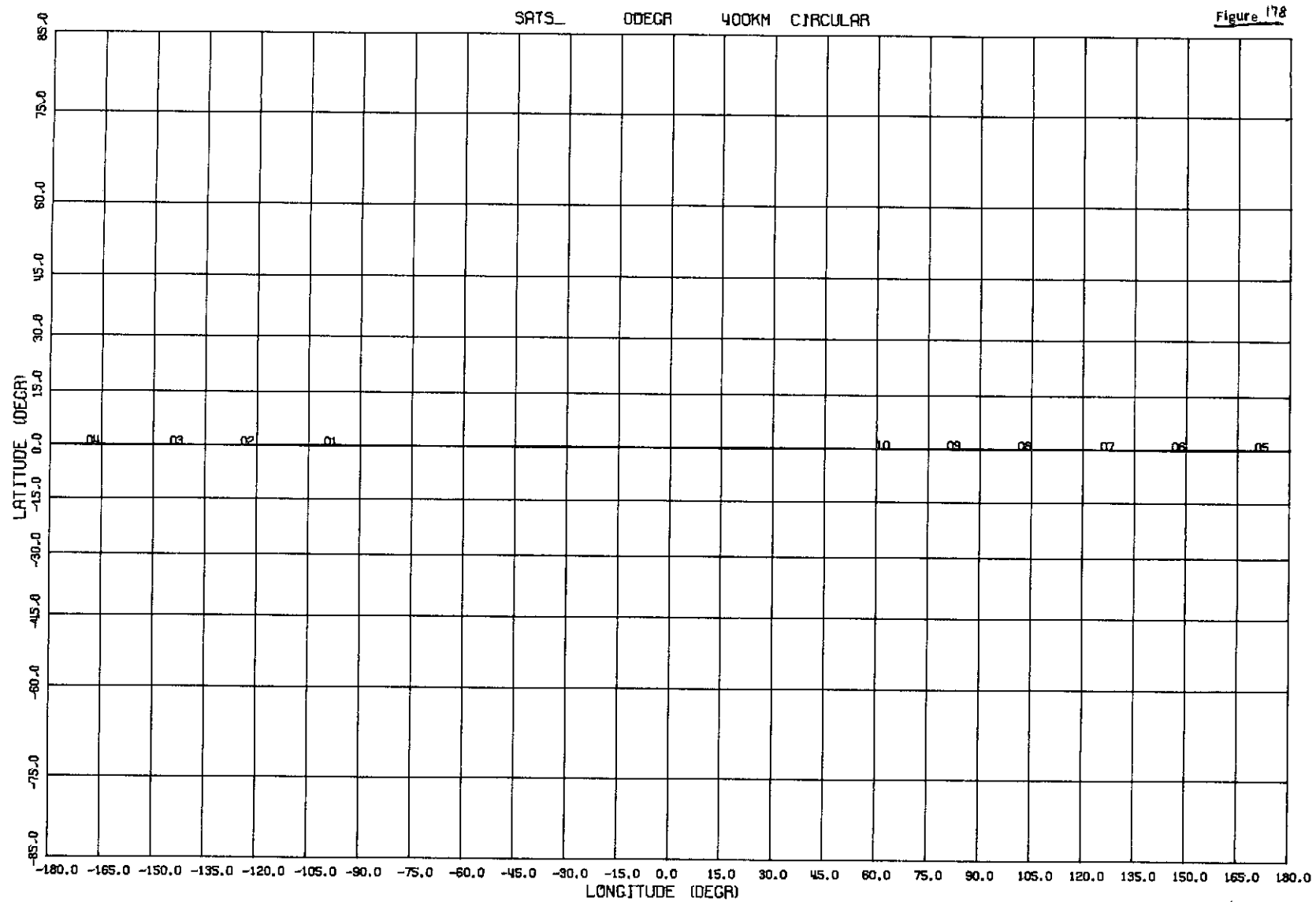
Figure 176

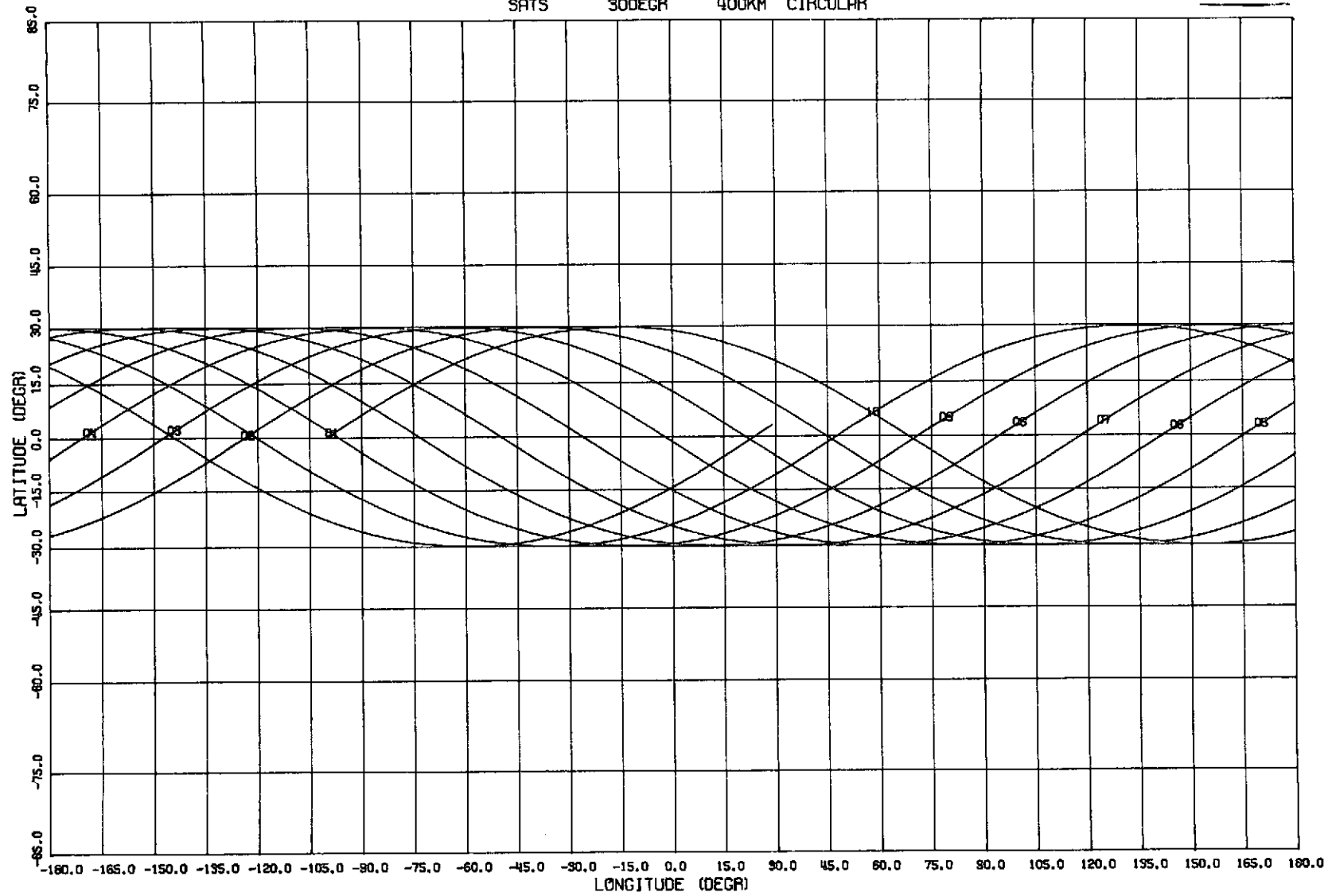


SATS 90DEGR 200KM CIRCULAR

Figure 177







SATS 60DEGR 400KM CIRCULAR

Figure 18a

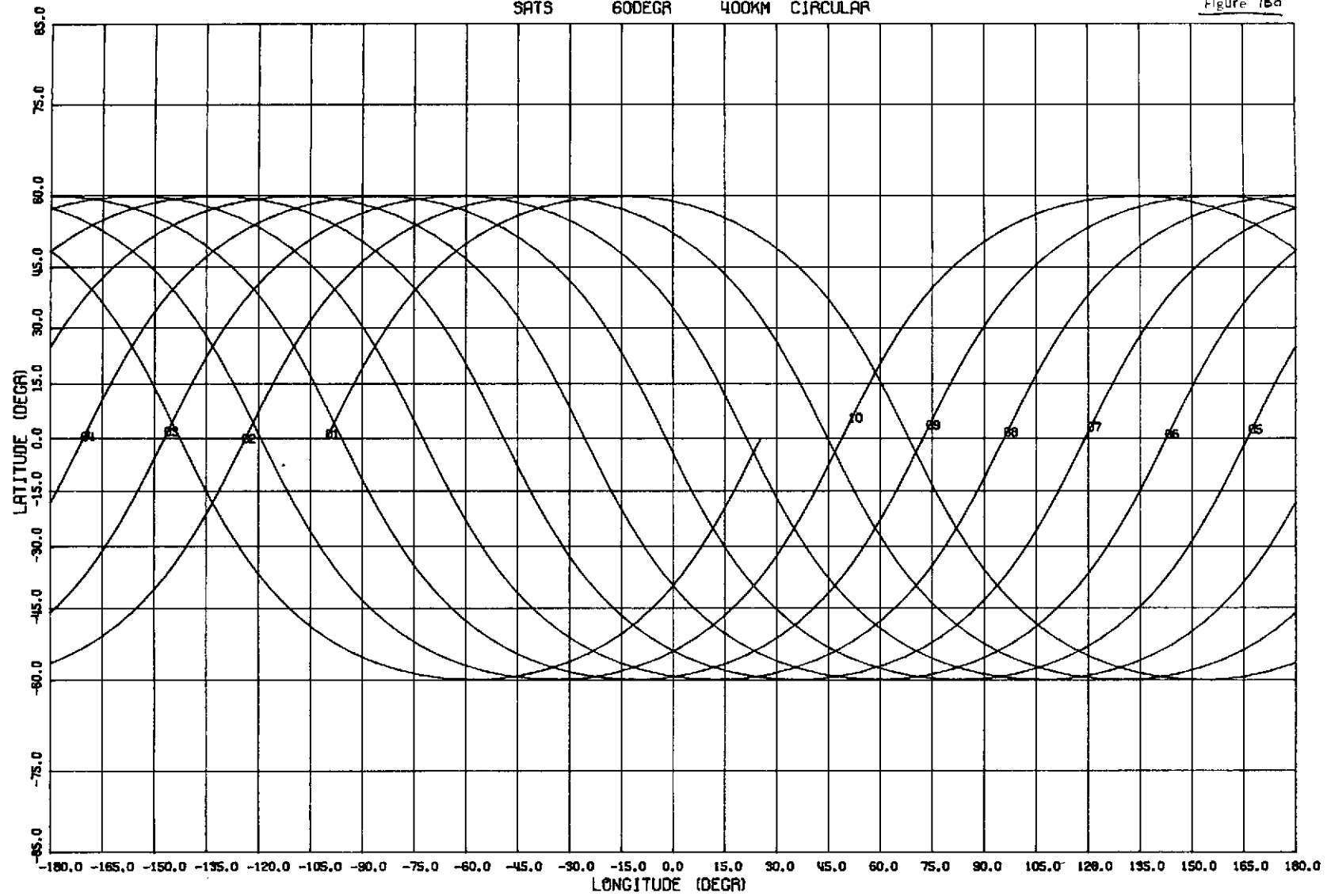
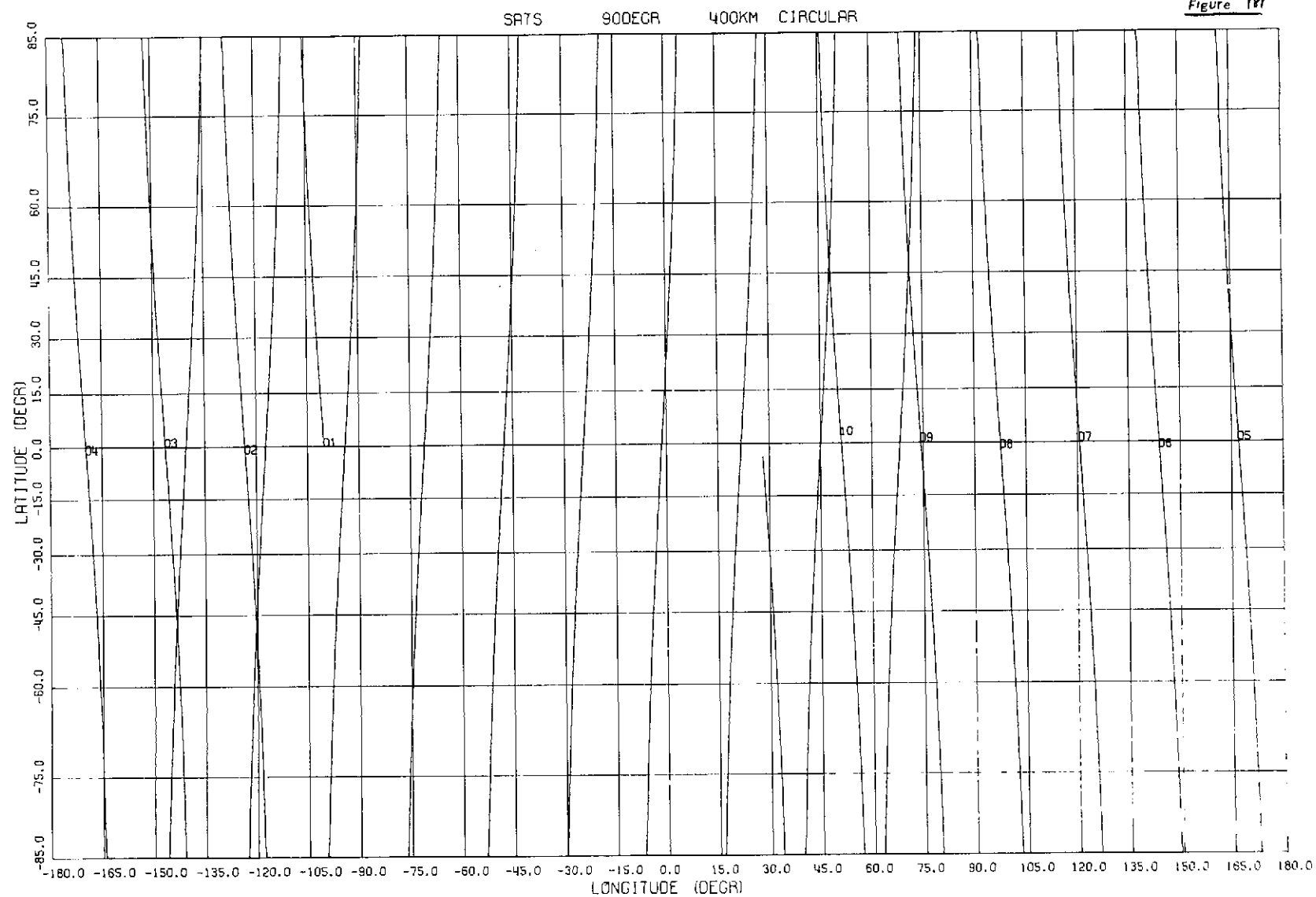
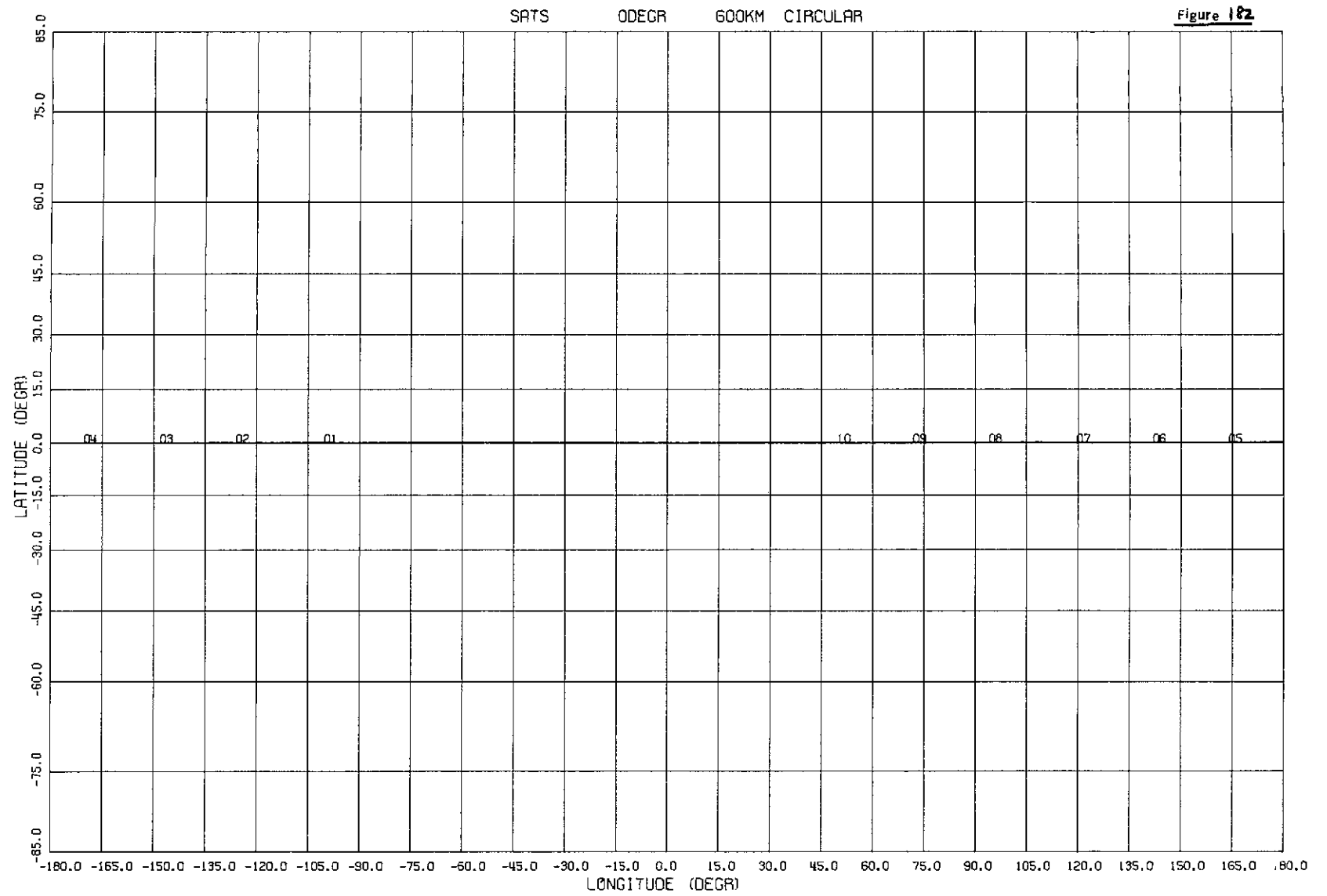


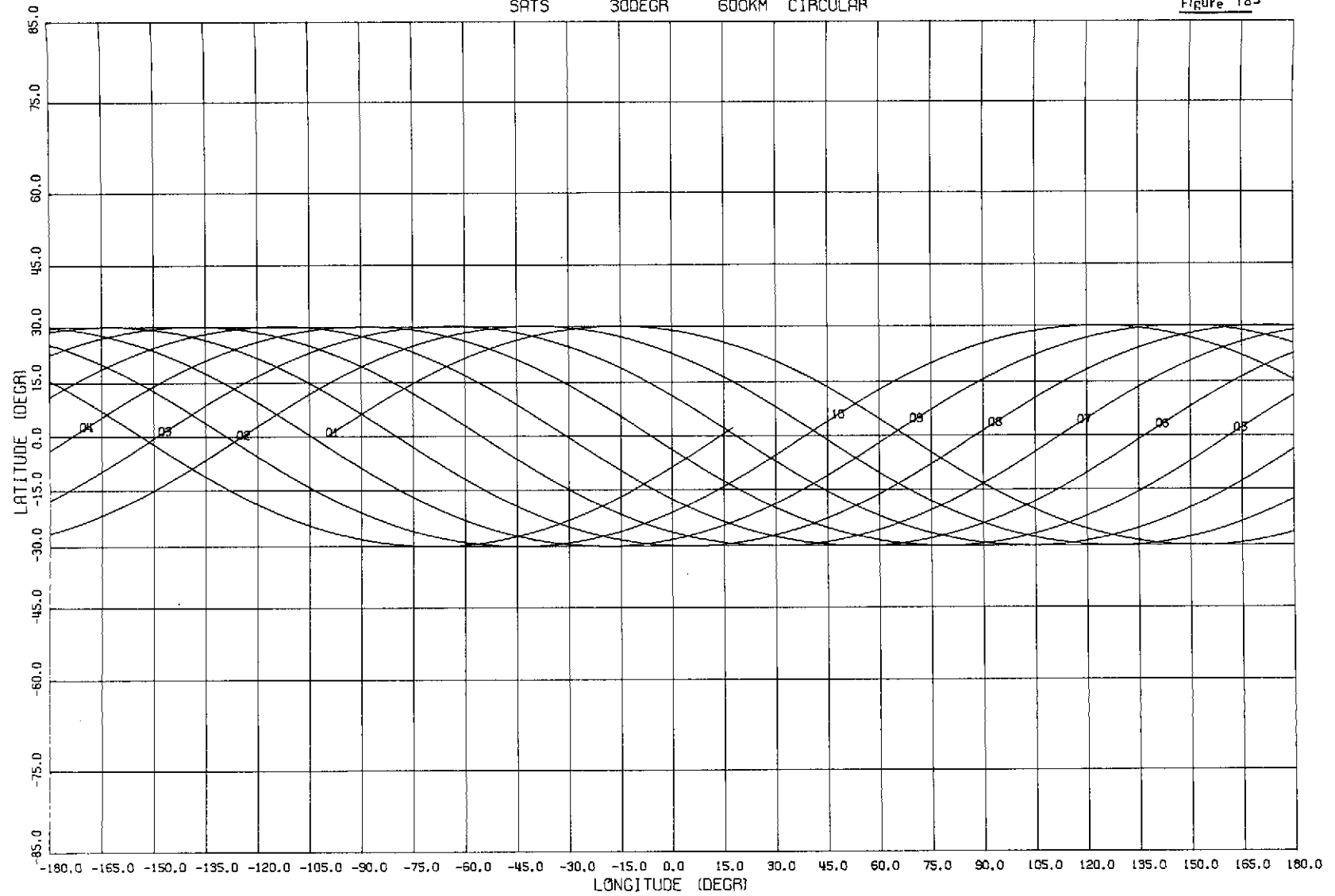
Figure 181

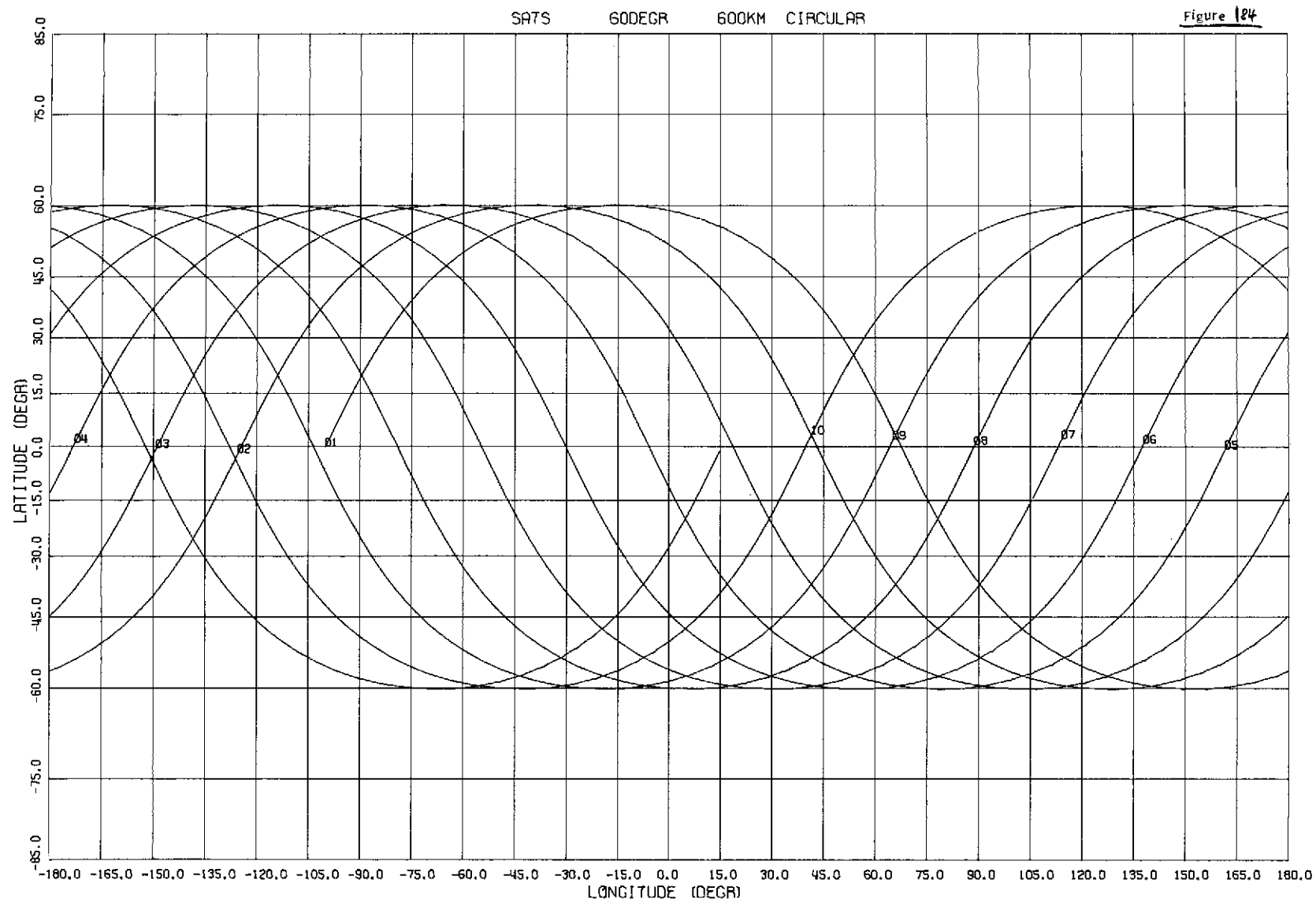




SATS 30DEGR 600KM CIRCULAR

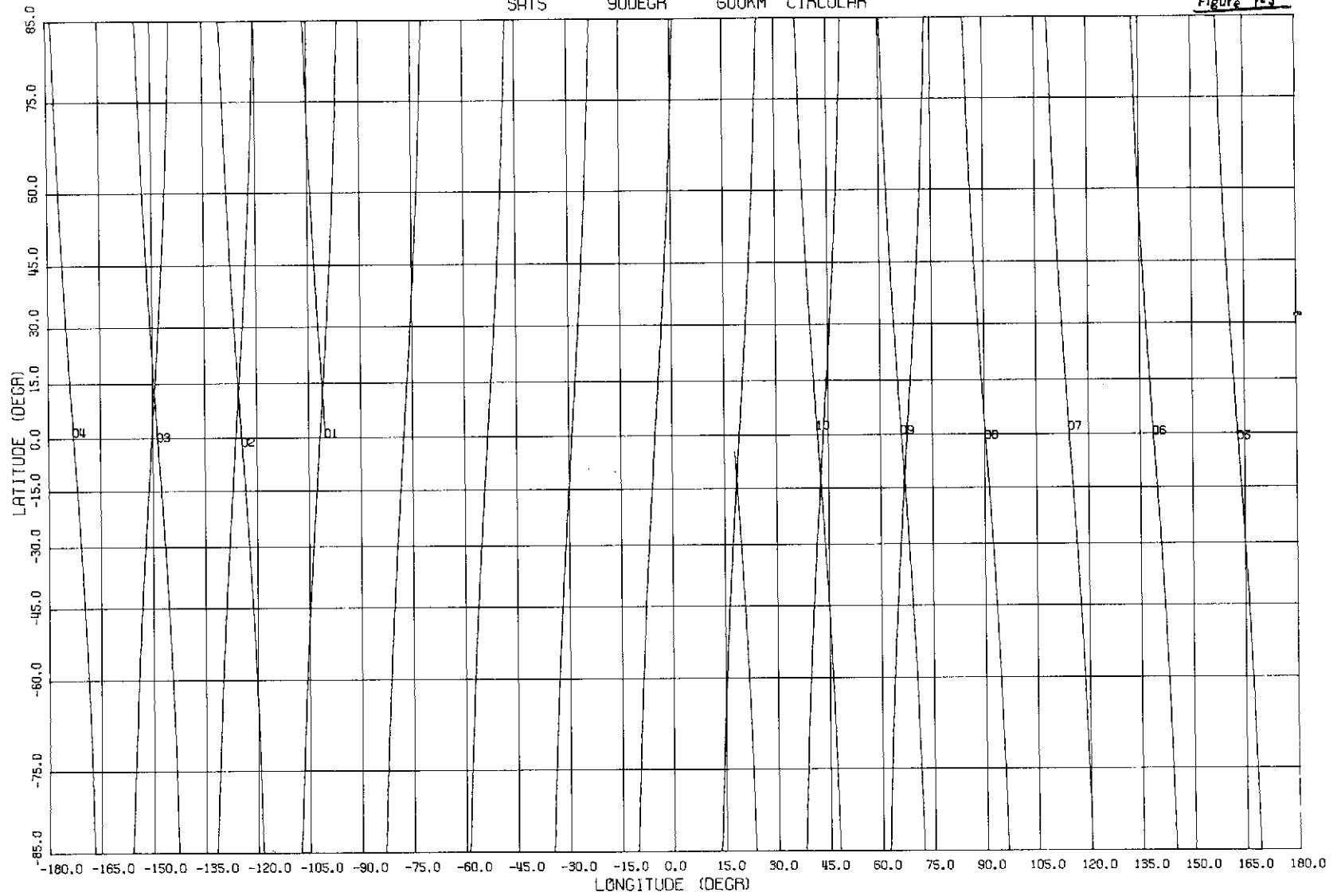
Figure 183

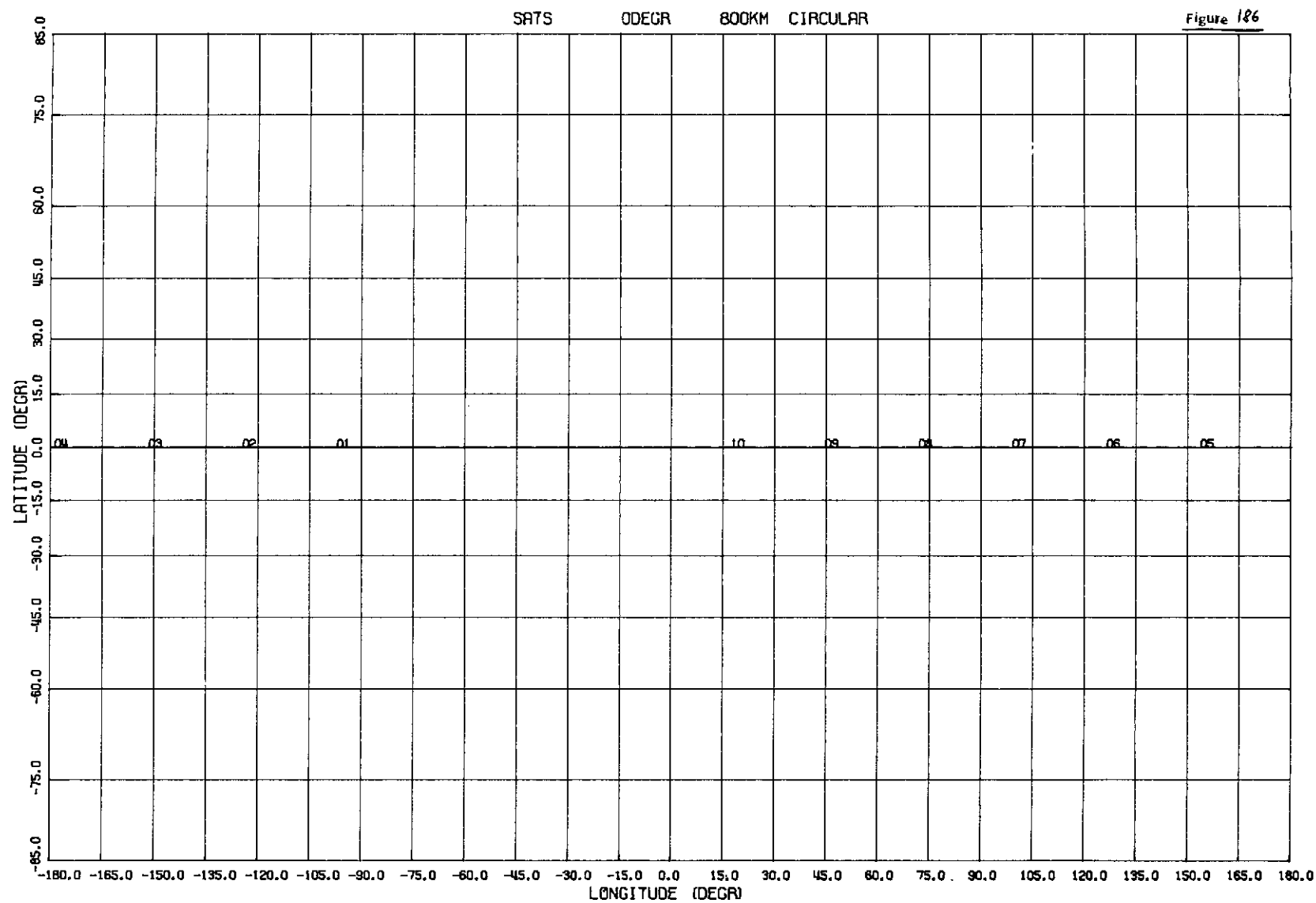




SATS 90DEGR 600KM CIRCULAR

Figure 125





SATS 30DEGR 800KM CIRCULAR

Figure 127

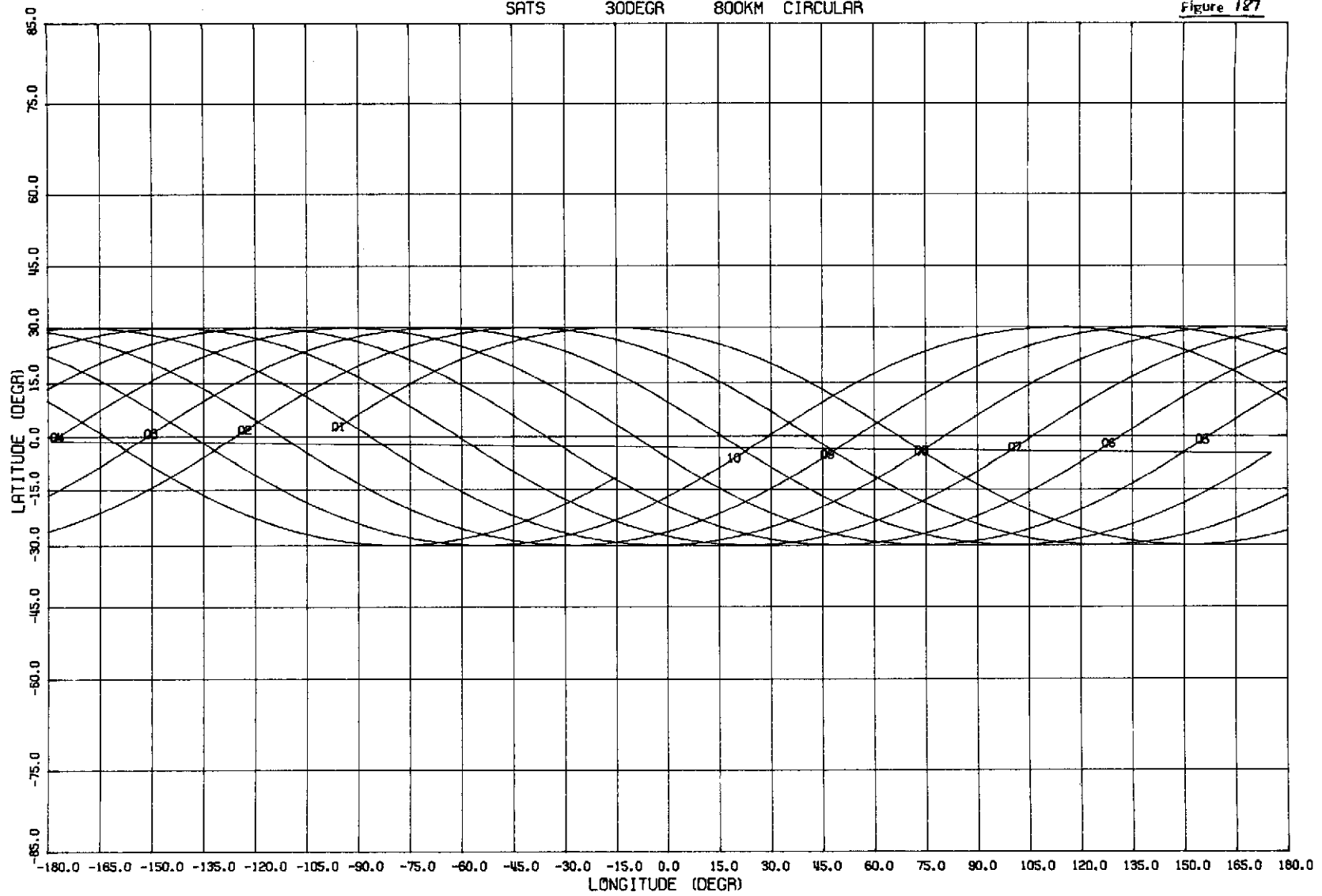
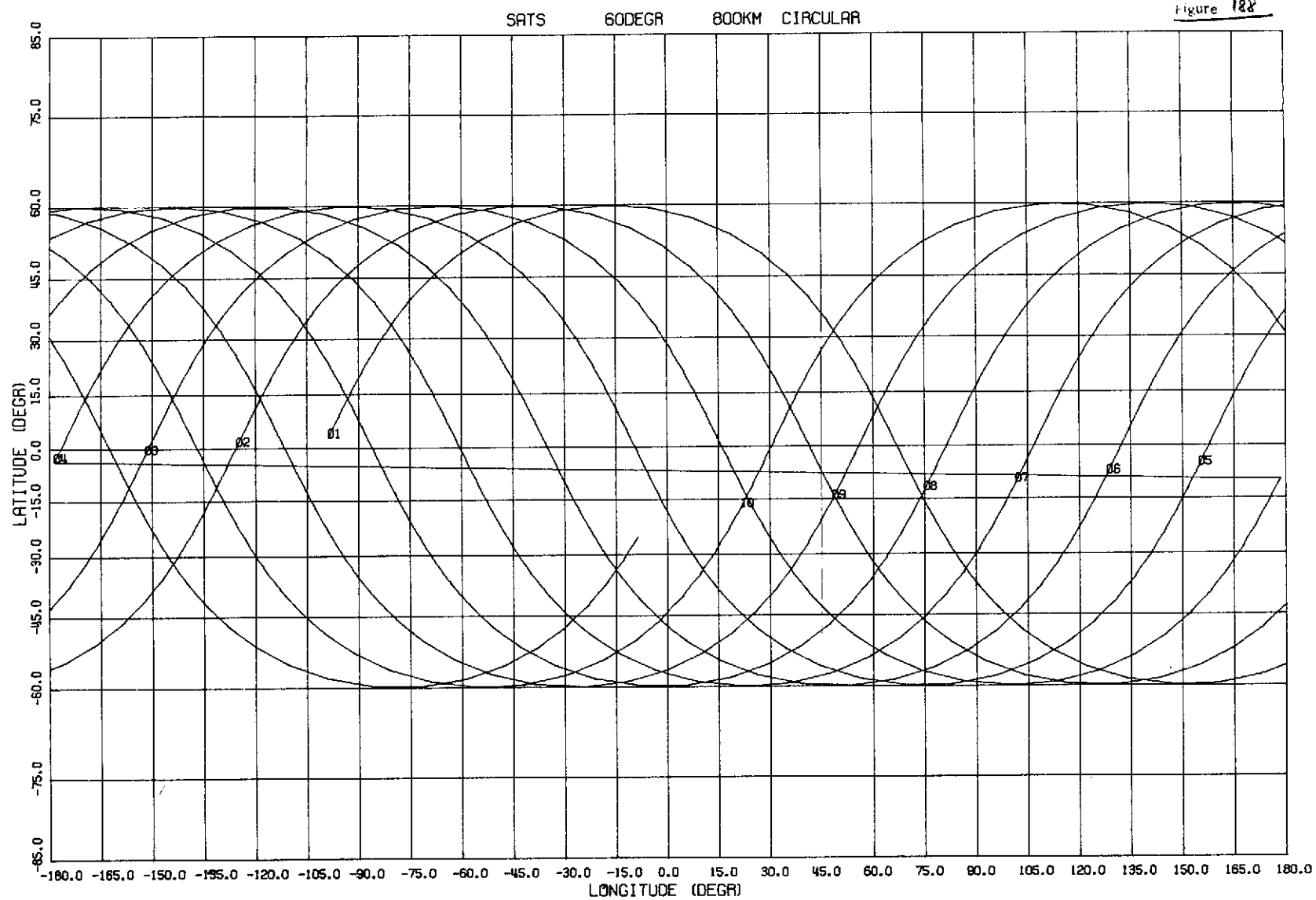
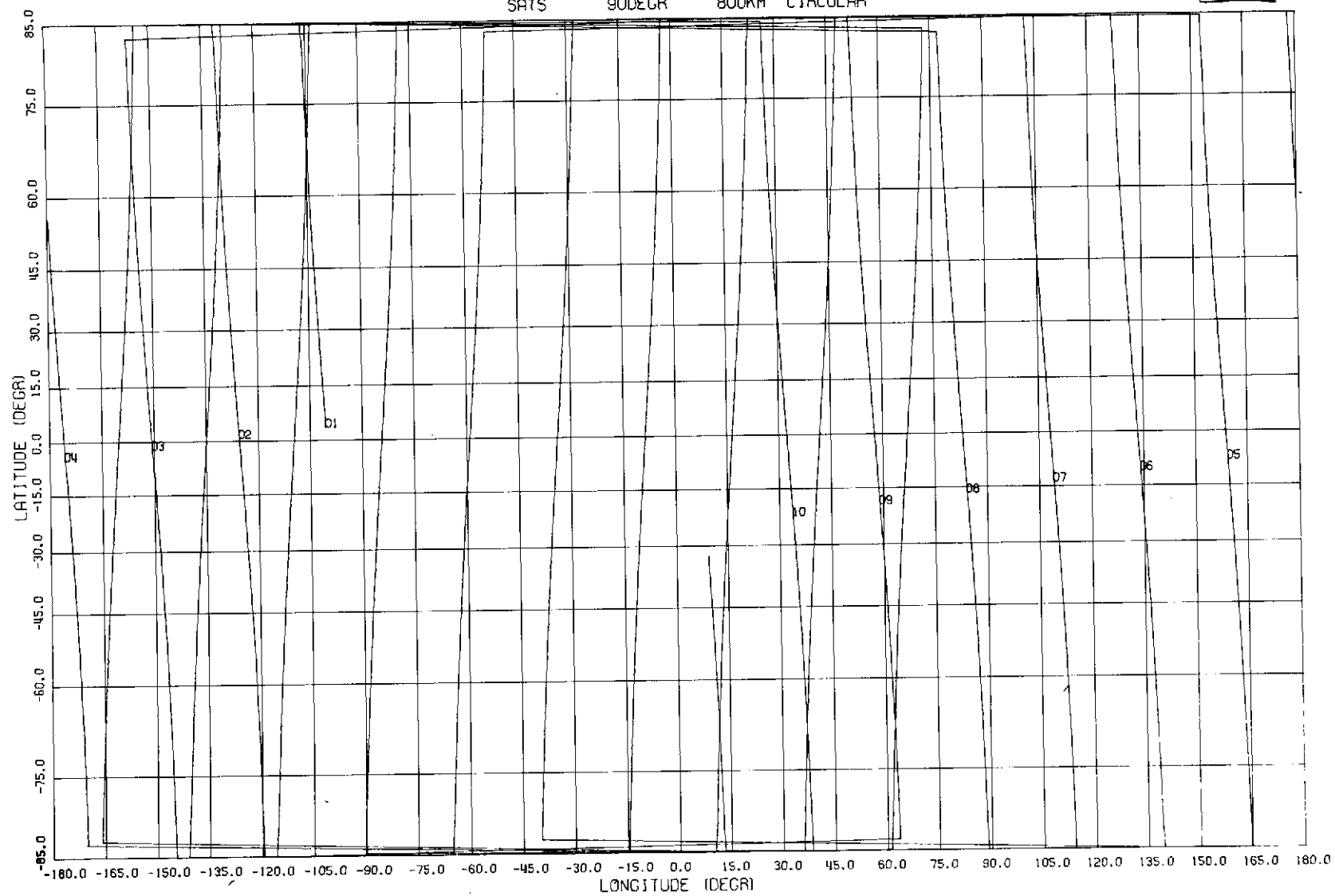


Figure 128



SATS 90DEGR 800KM CIRCULAR

Figure 189



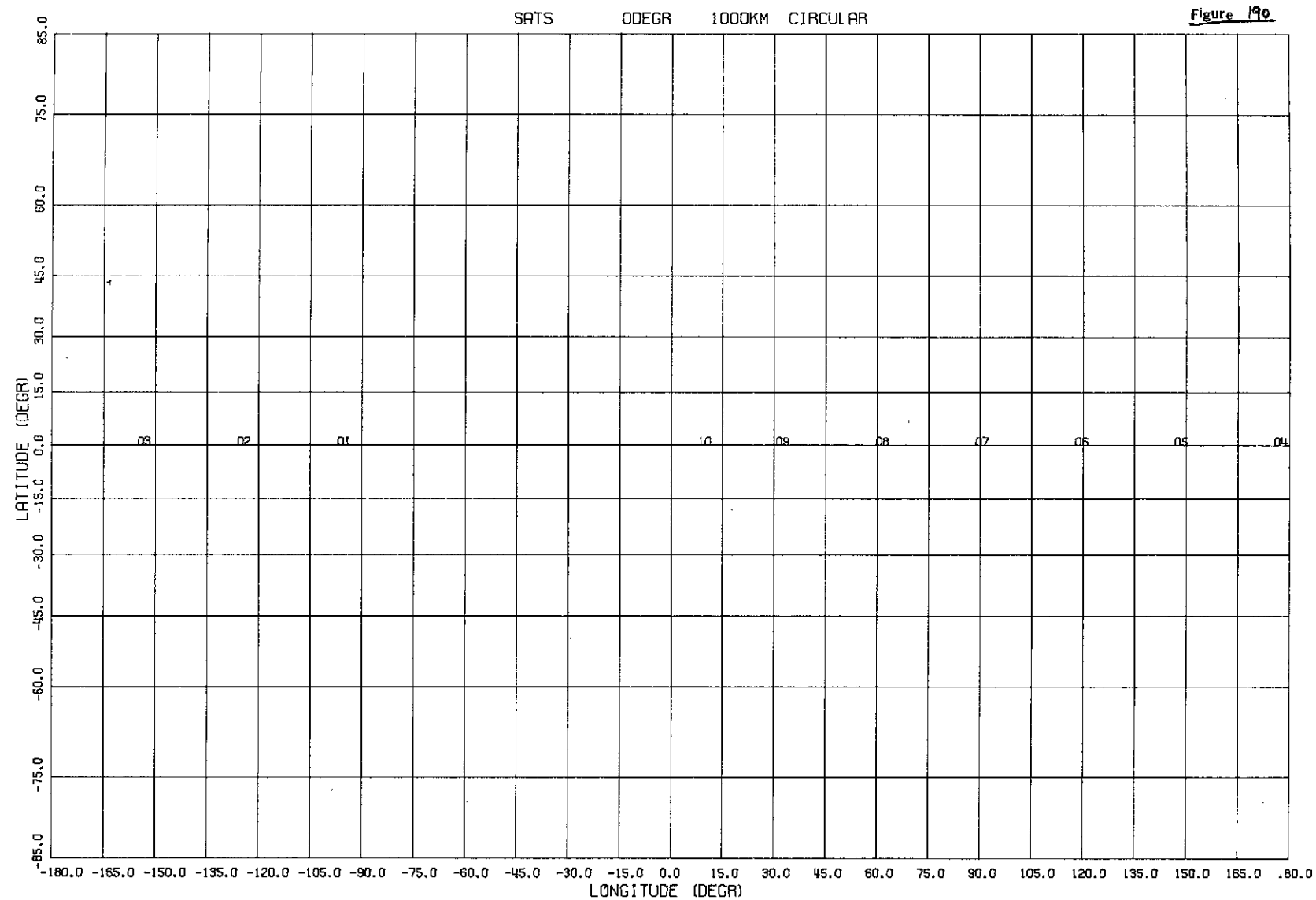


Figure 191

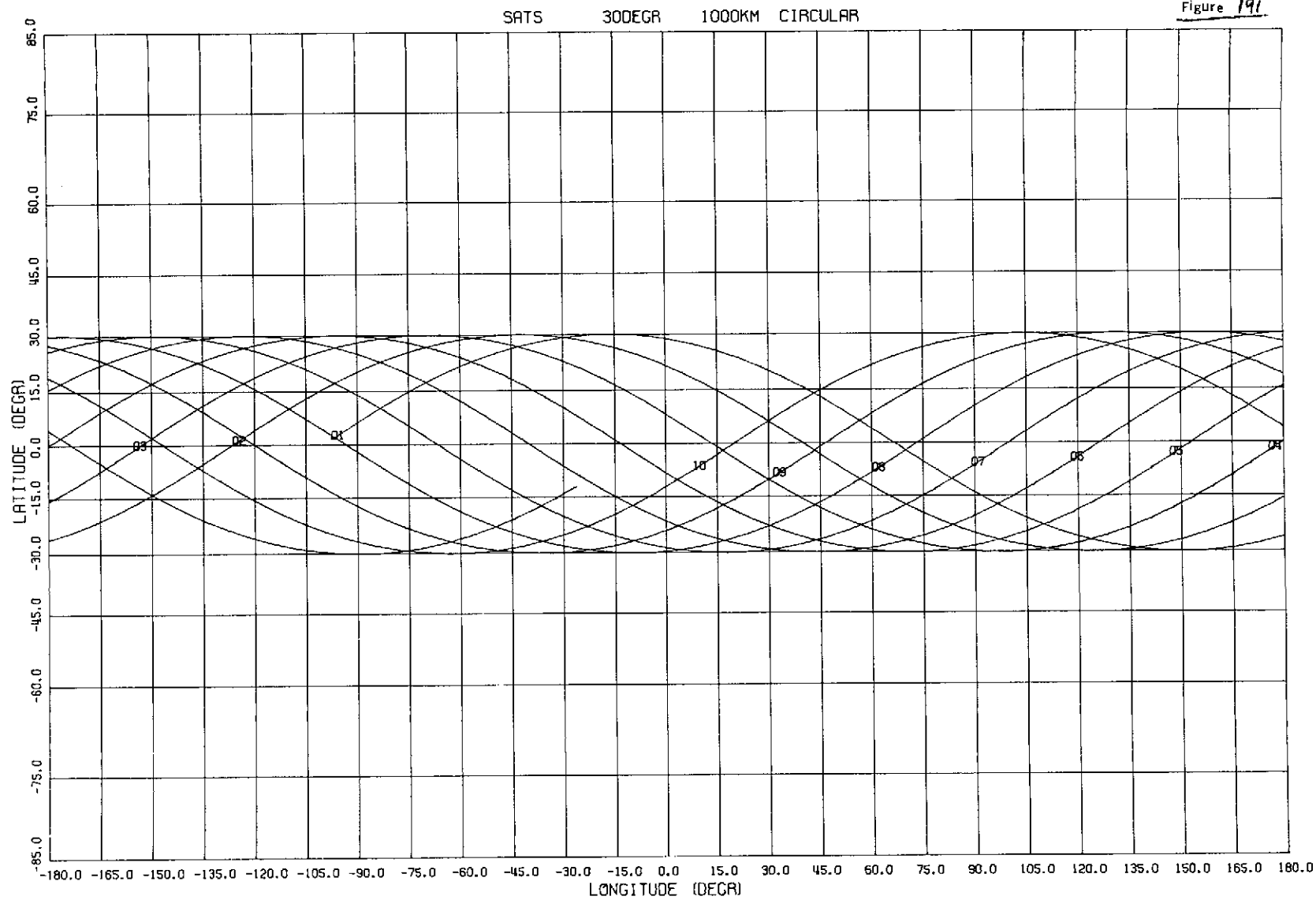
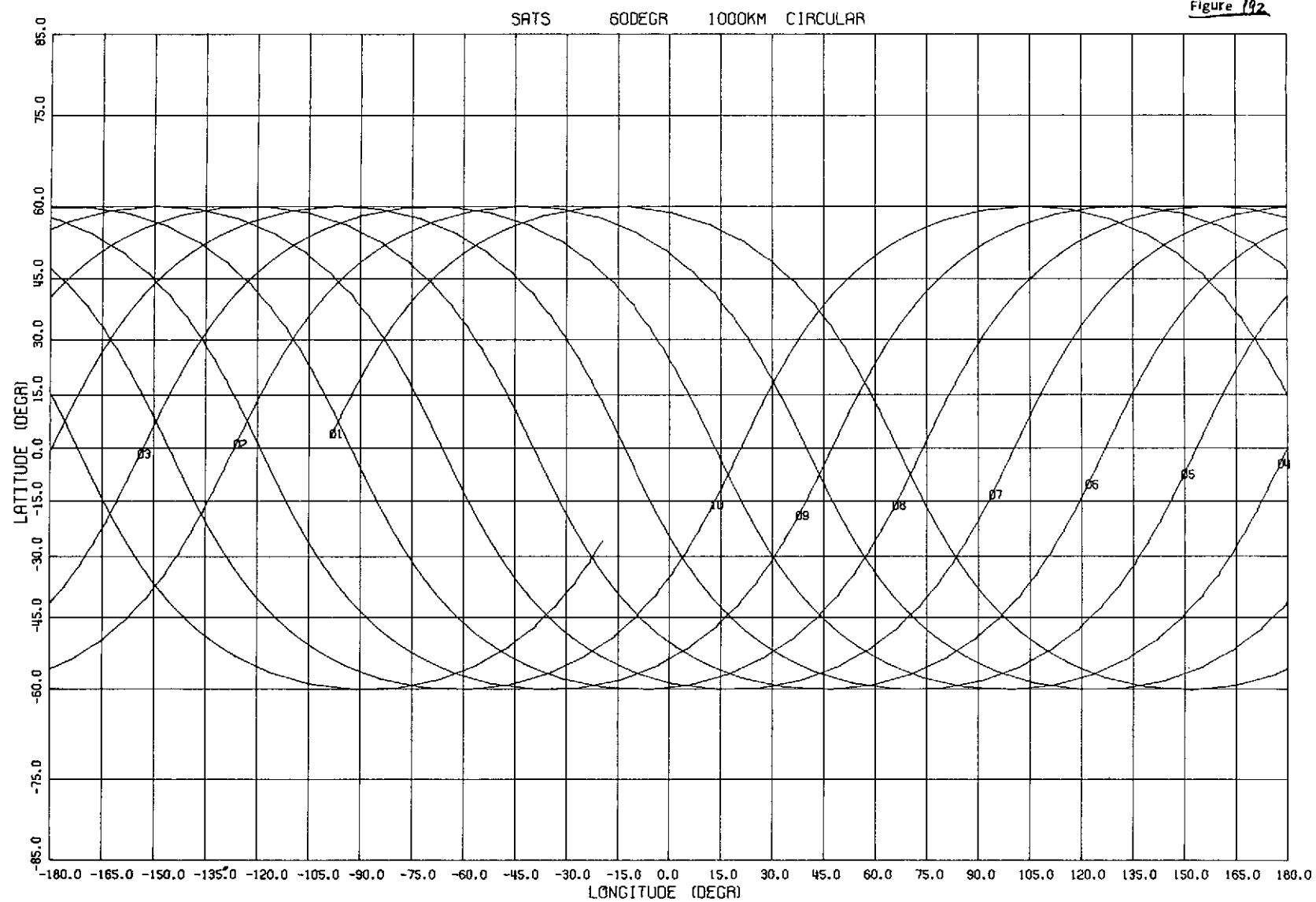
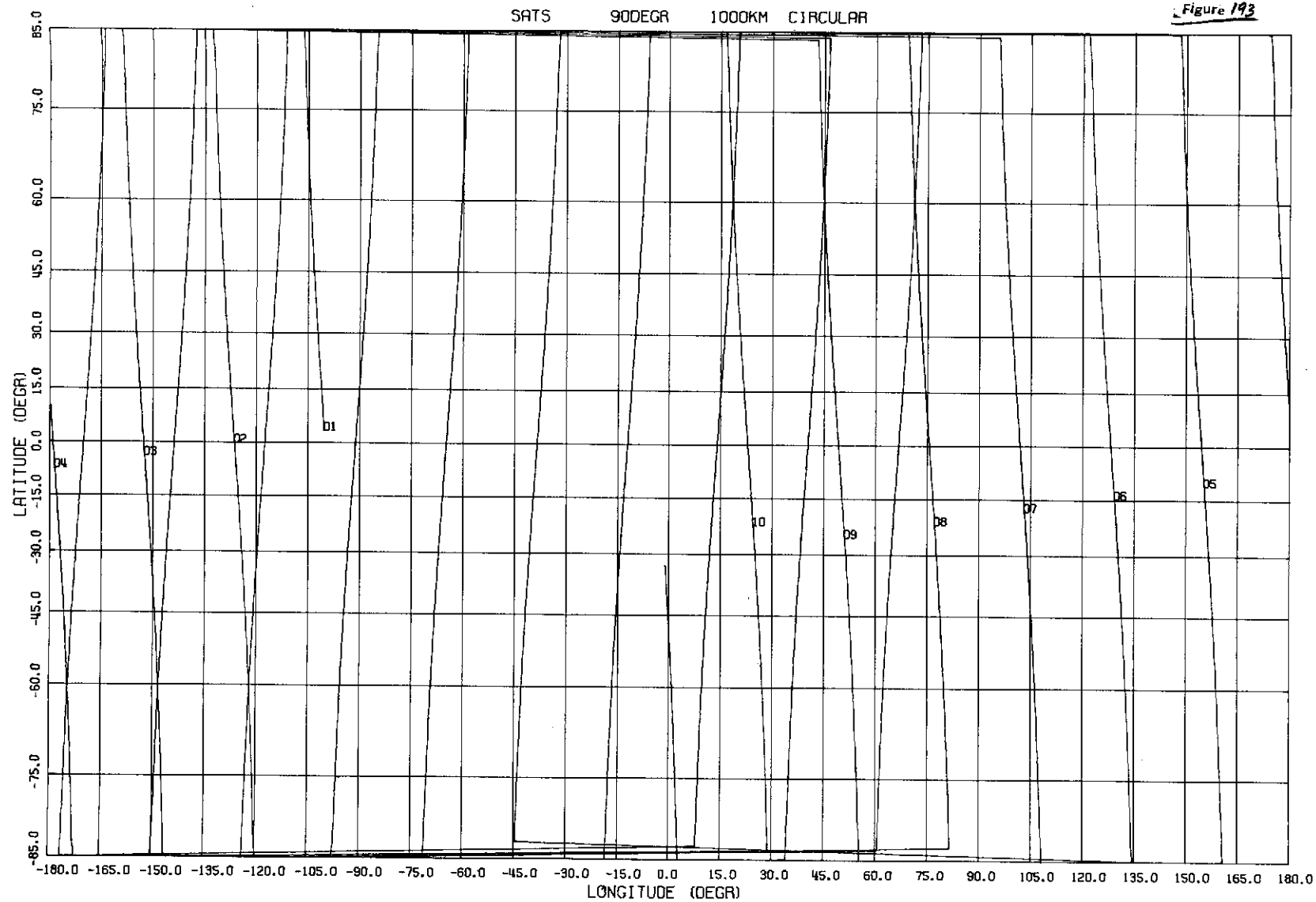
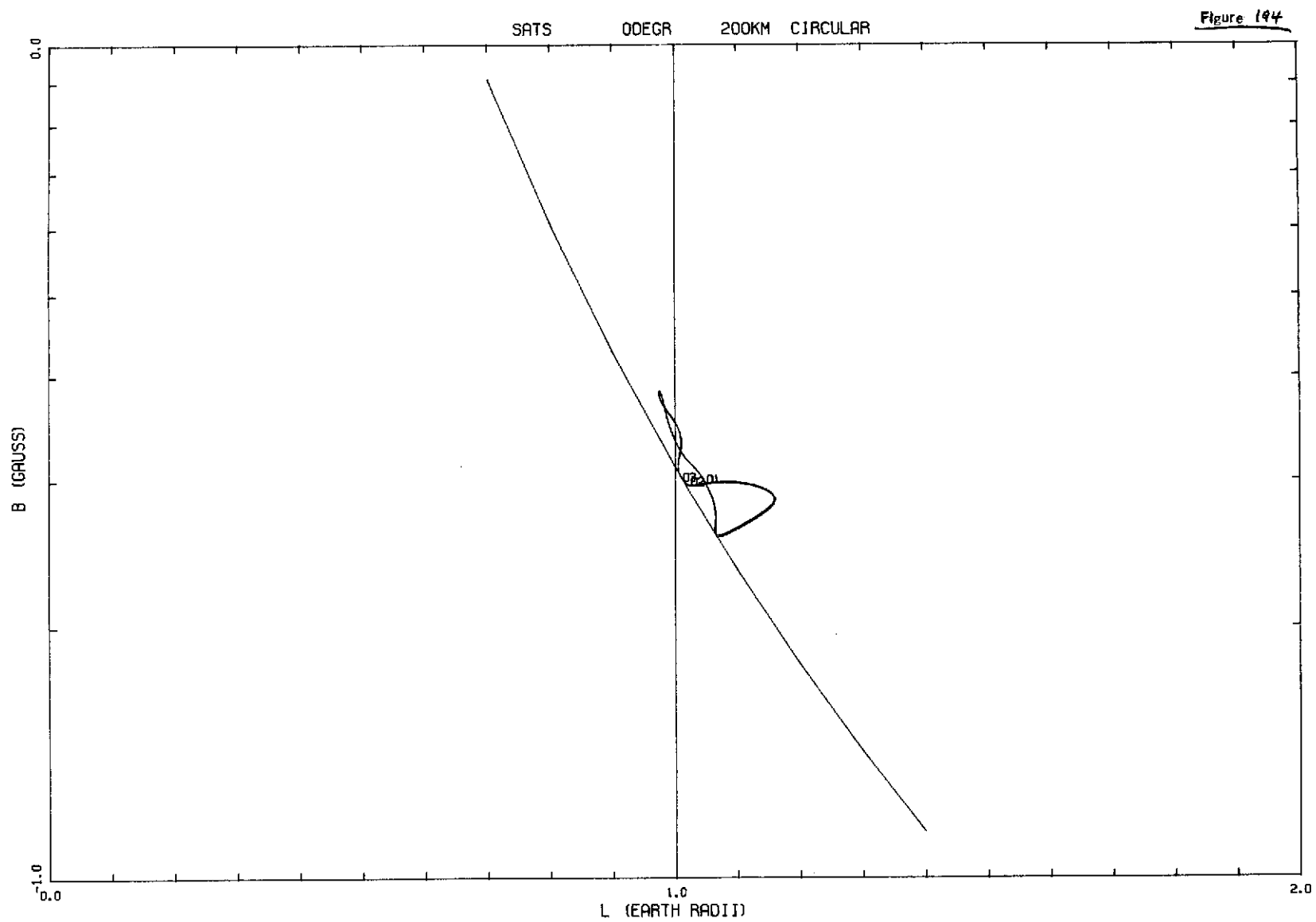
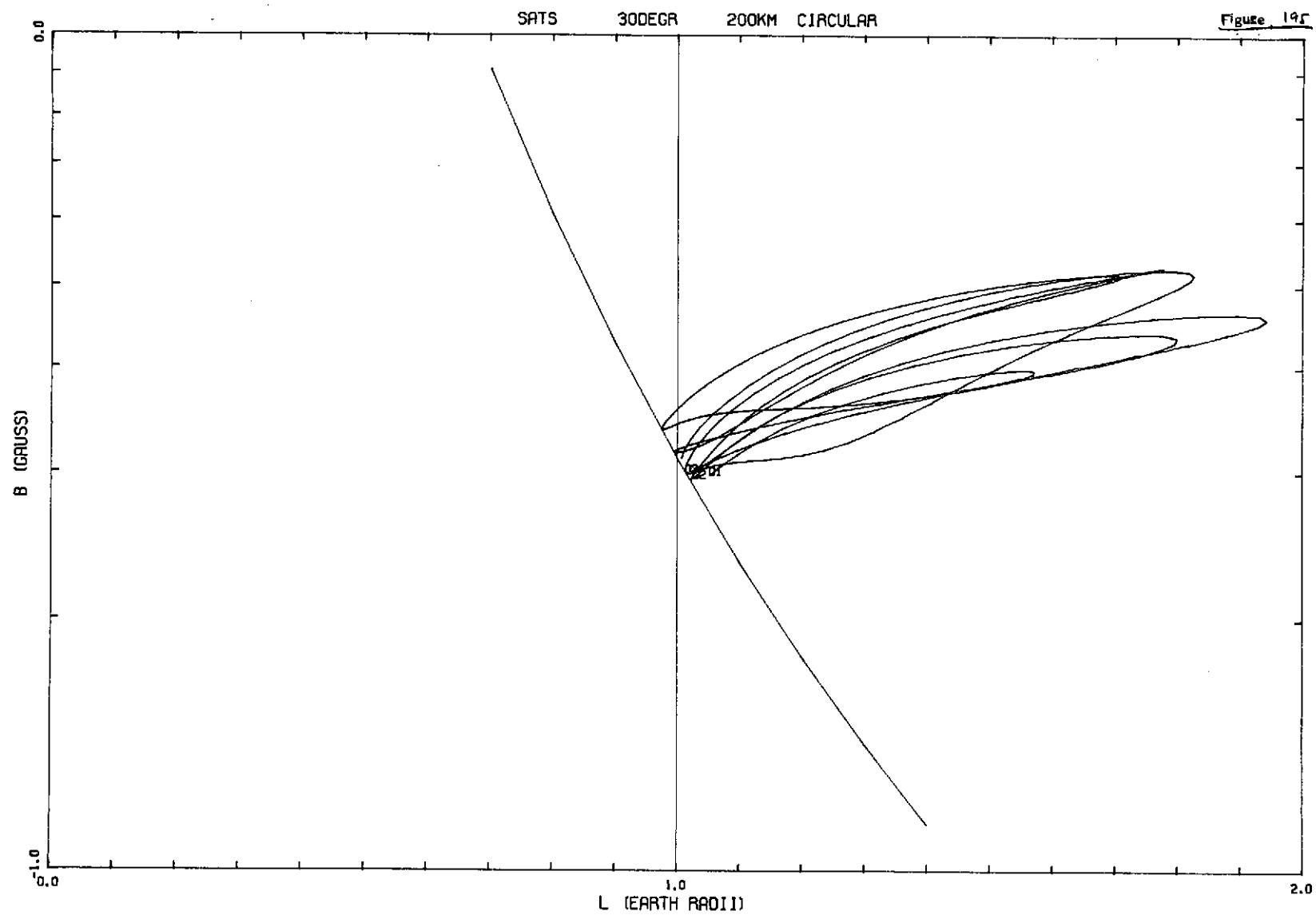


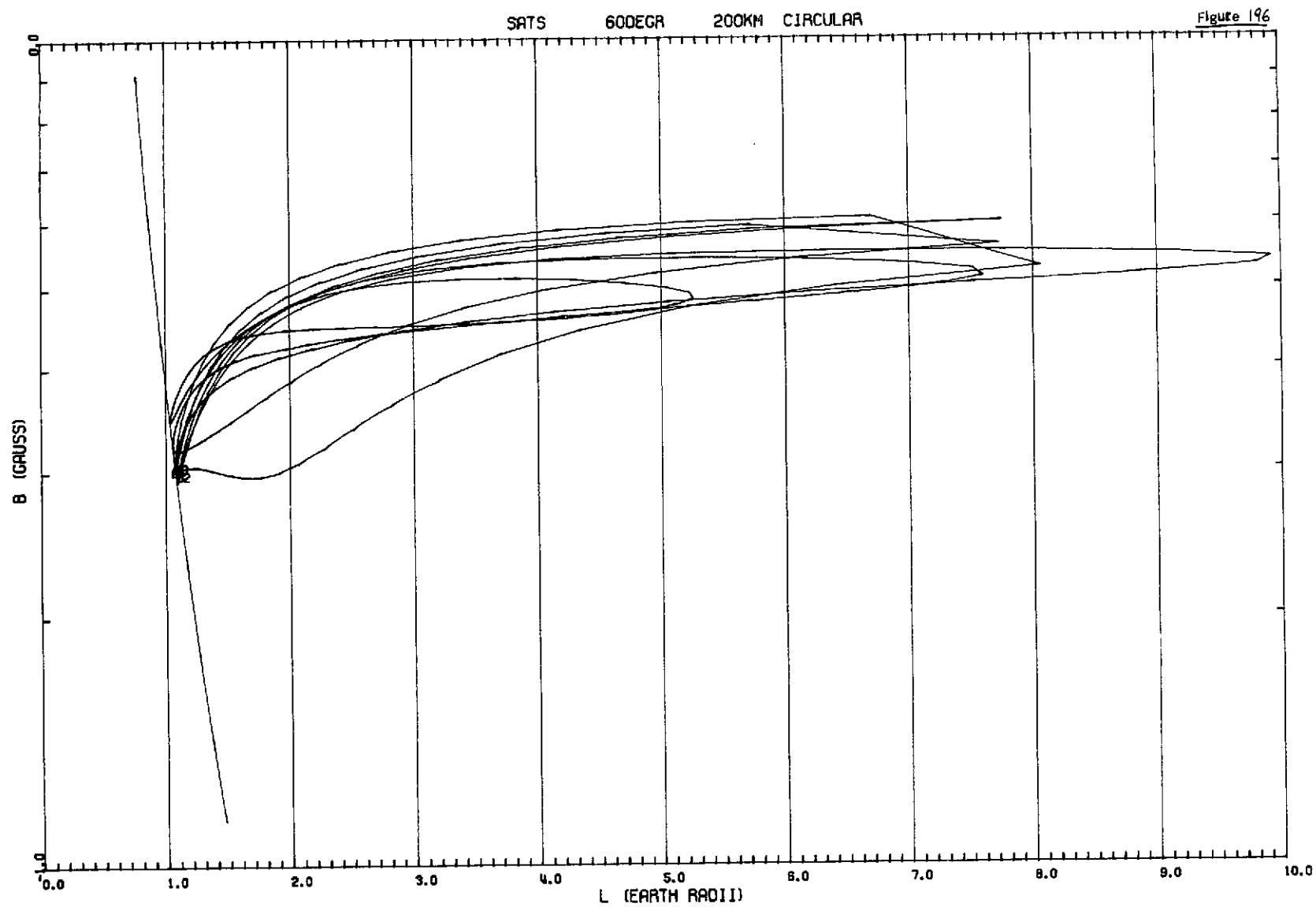
Figure 192











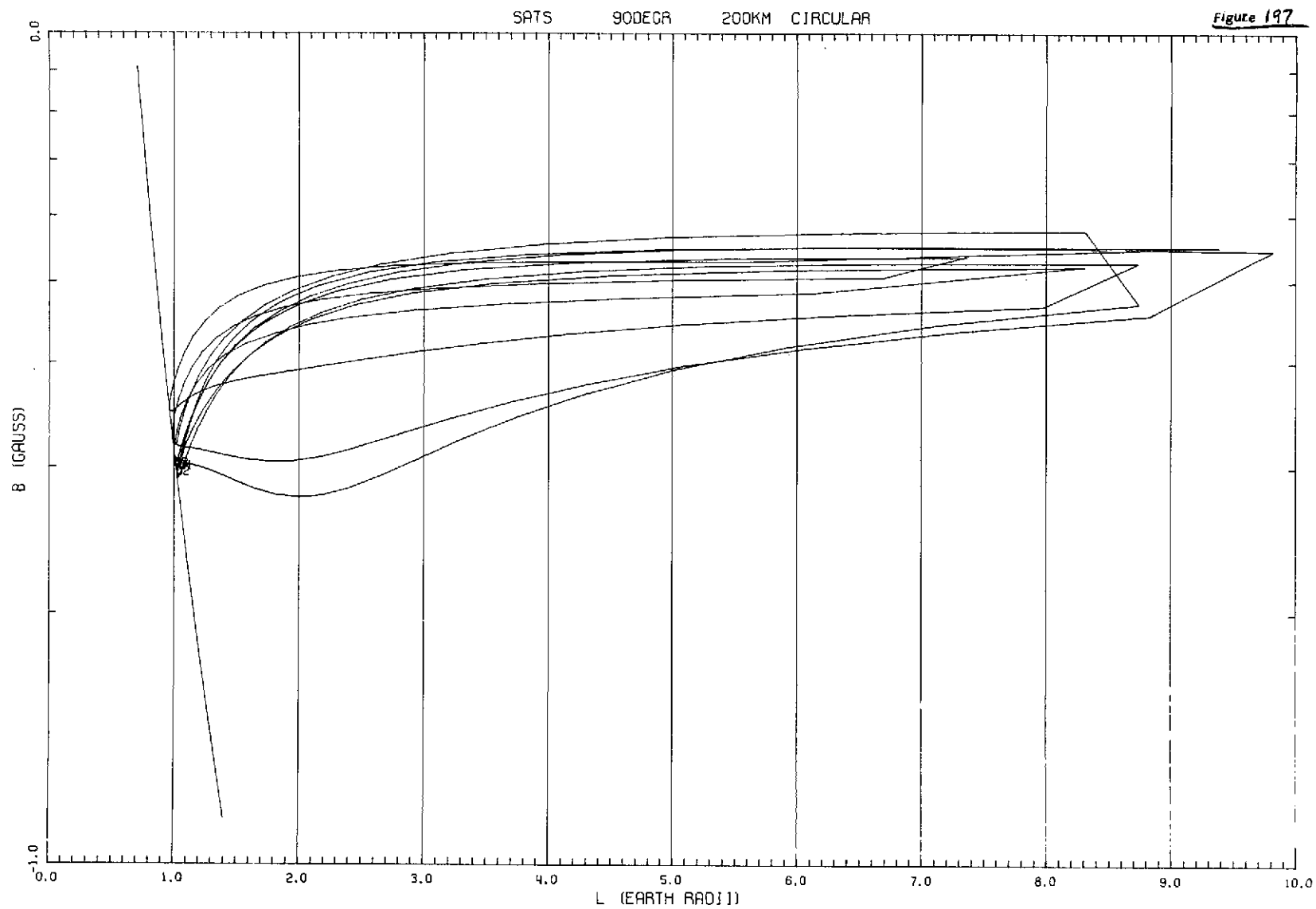
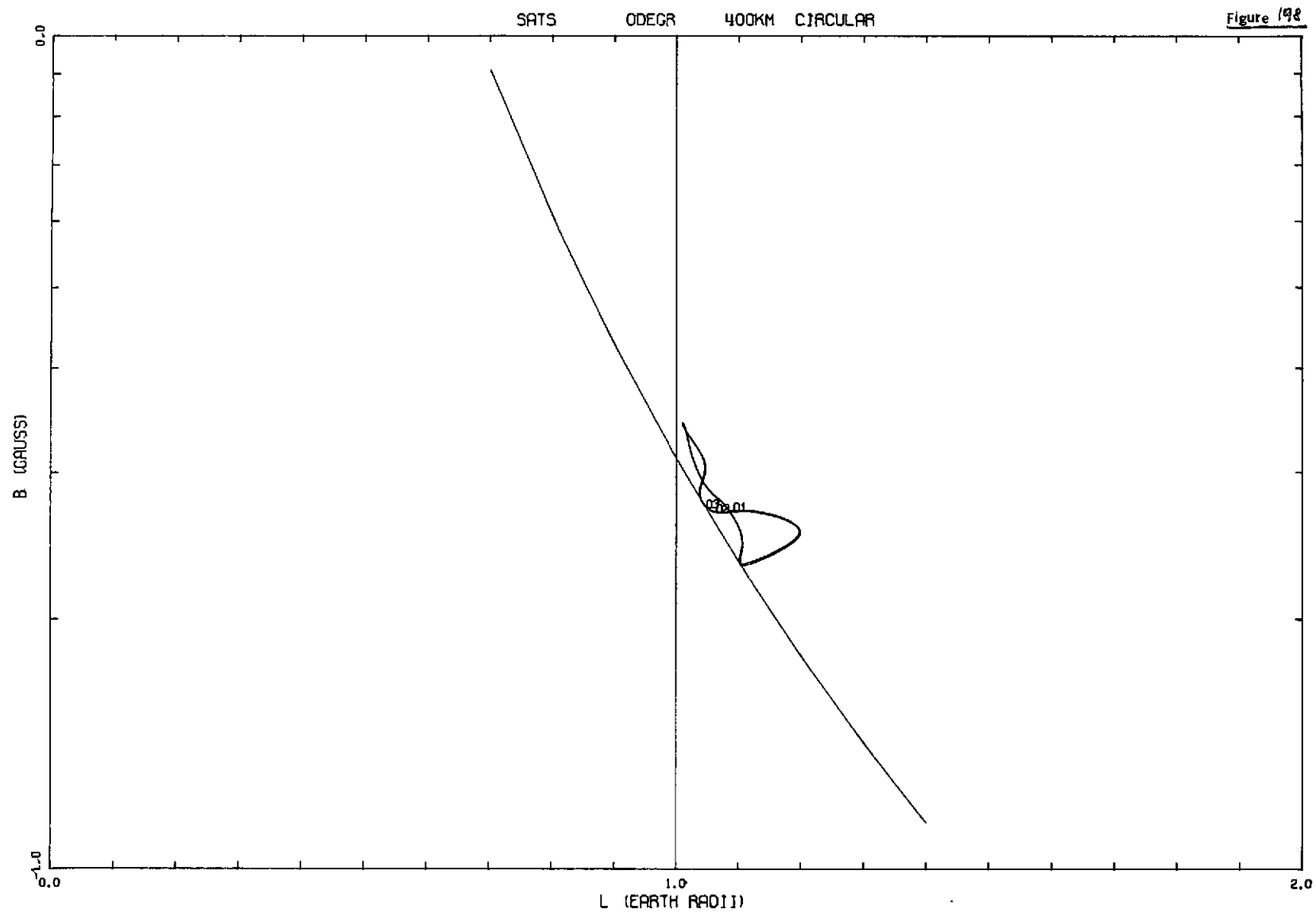


Figure 198



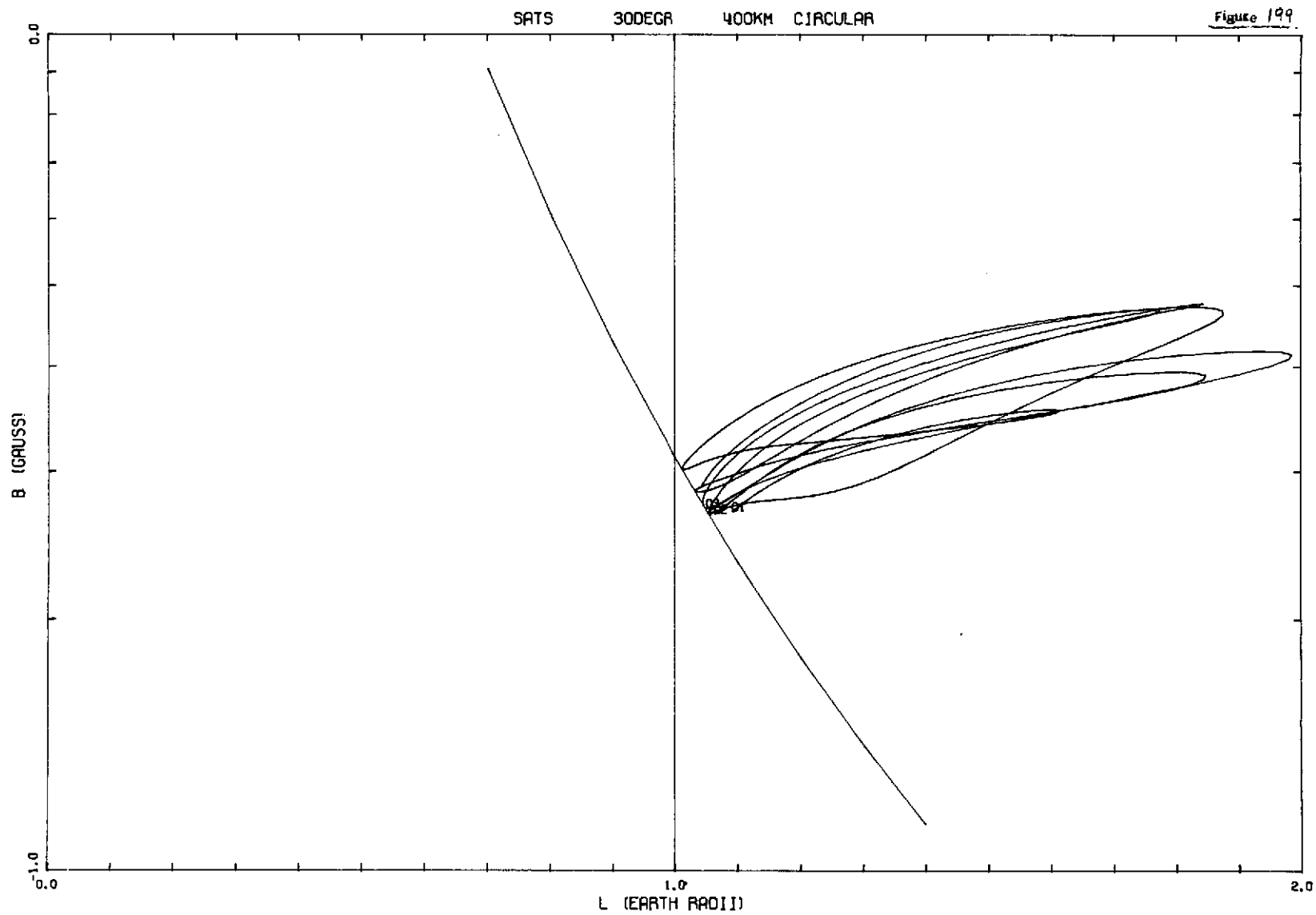


Figure 200

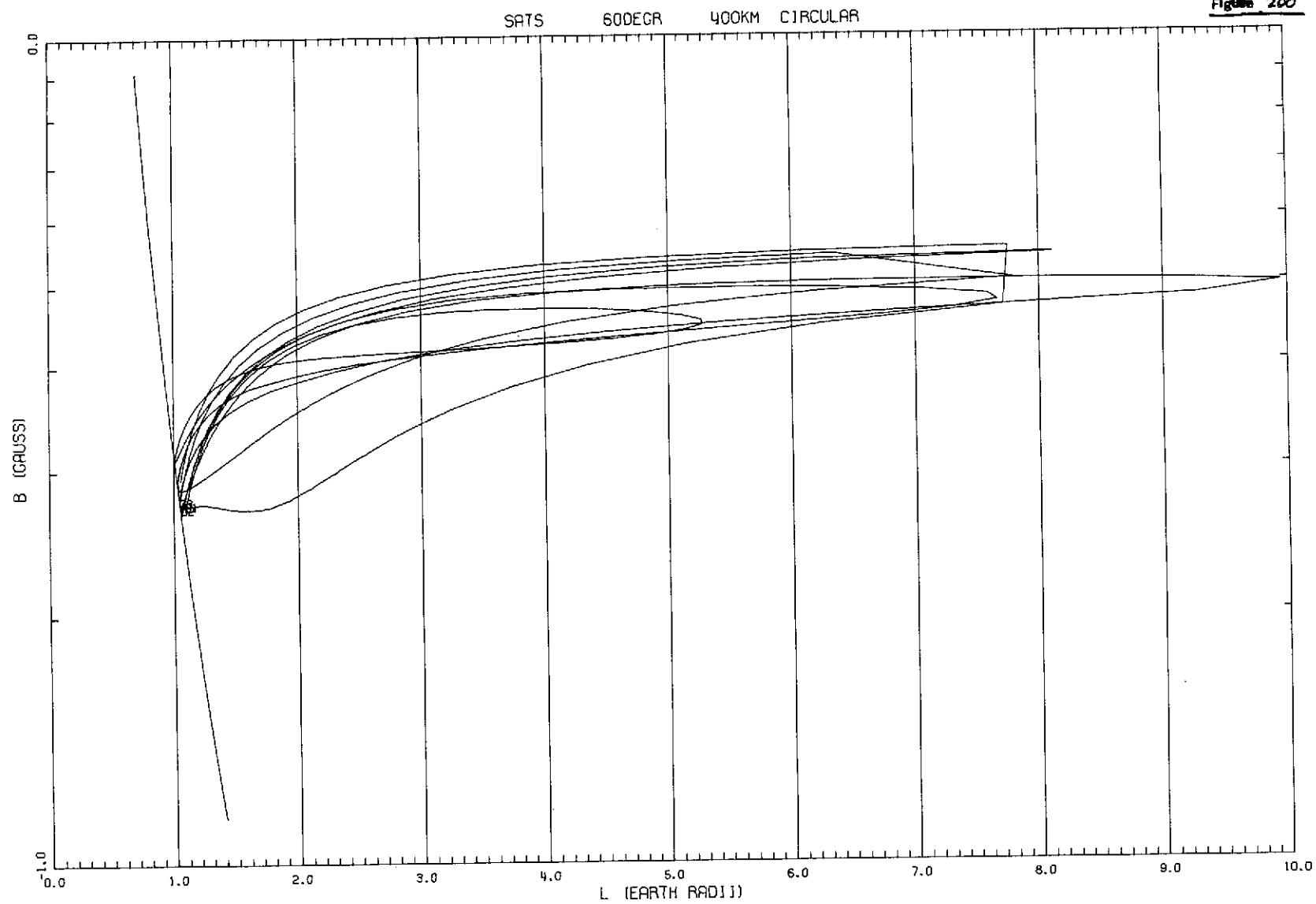


Figure 201

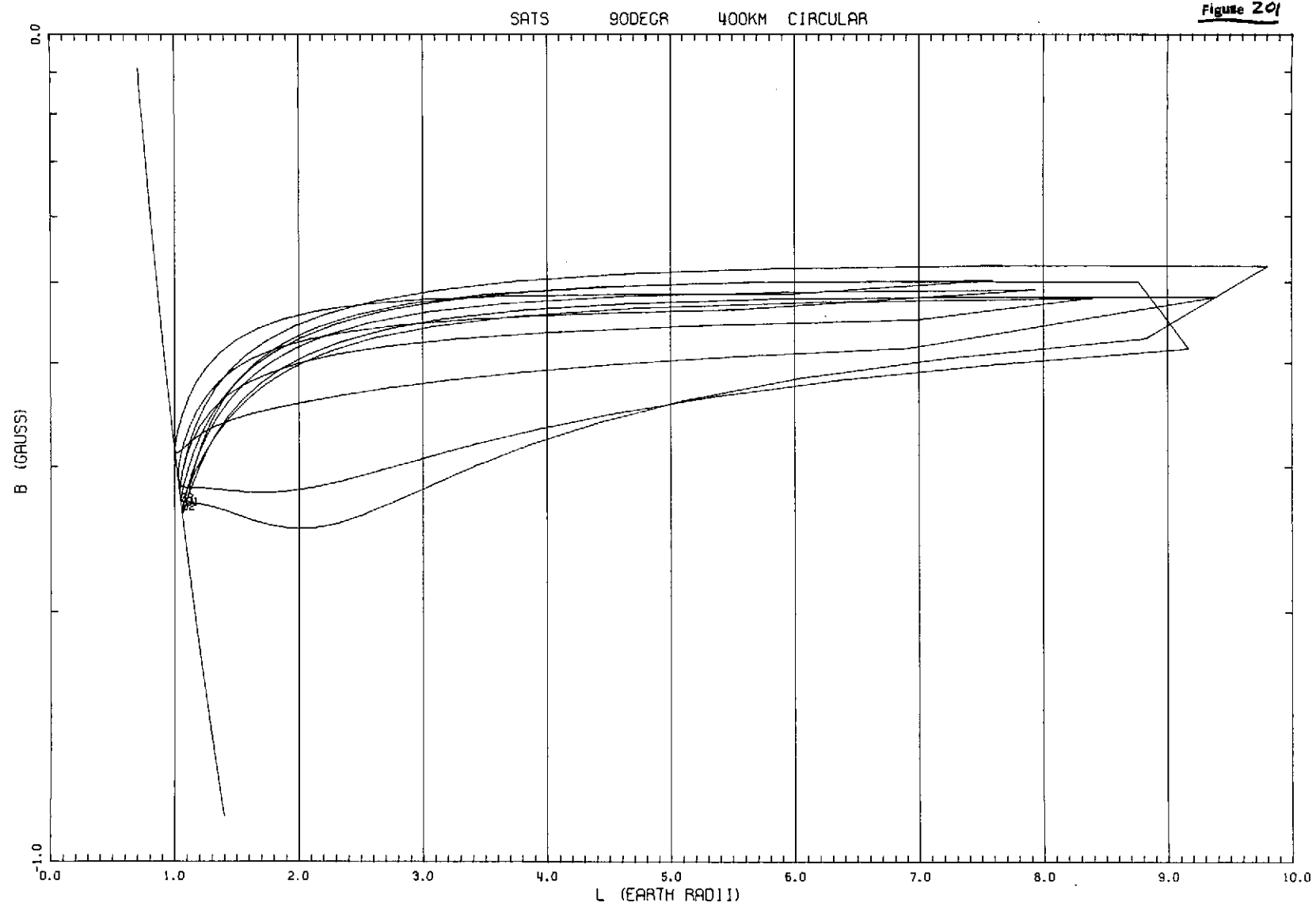
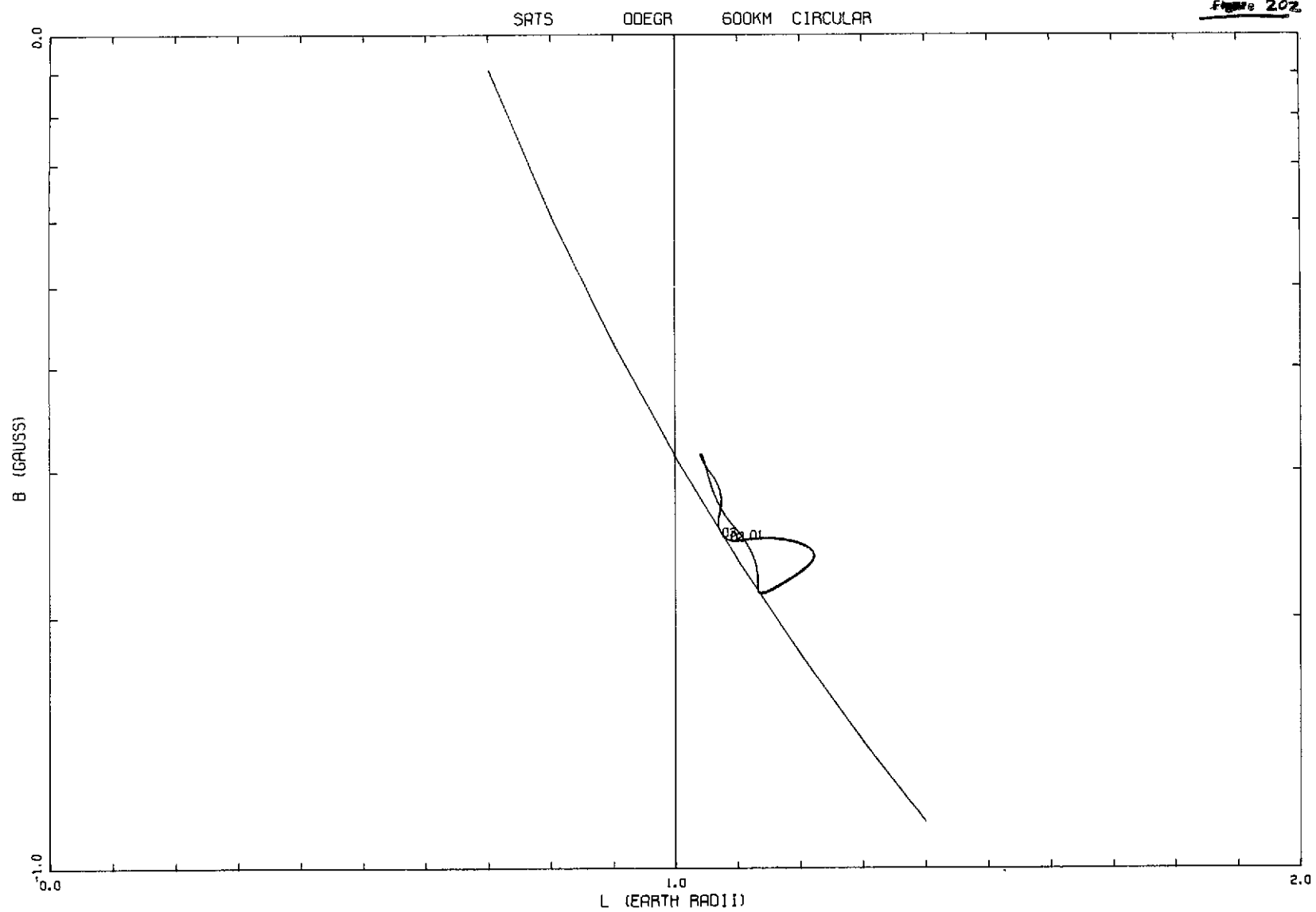


Figure 202



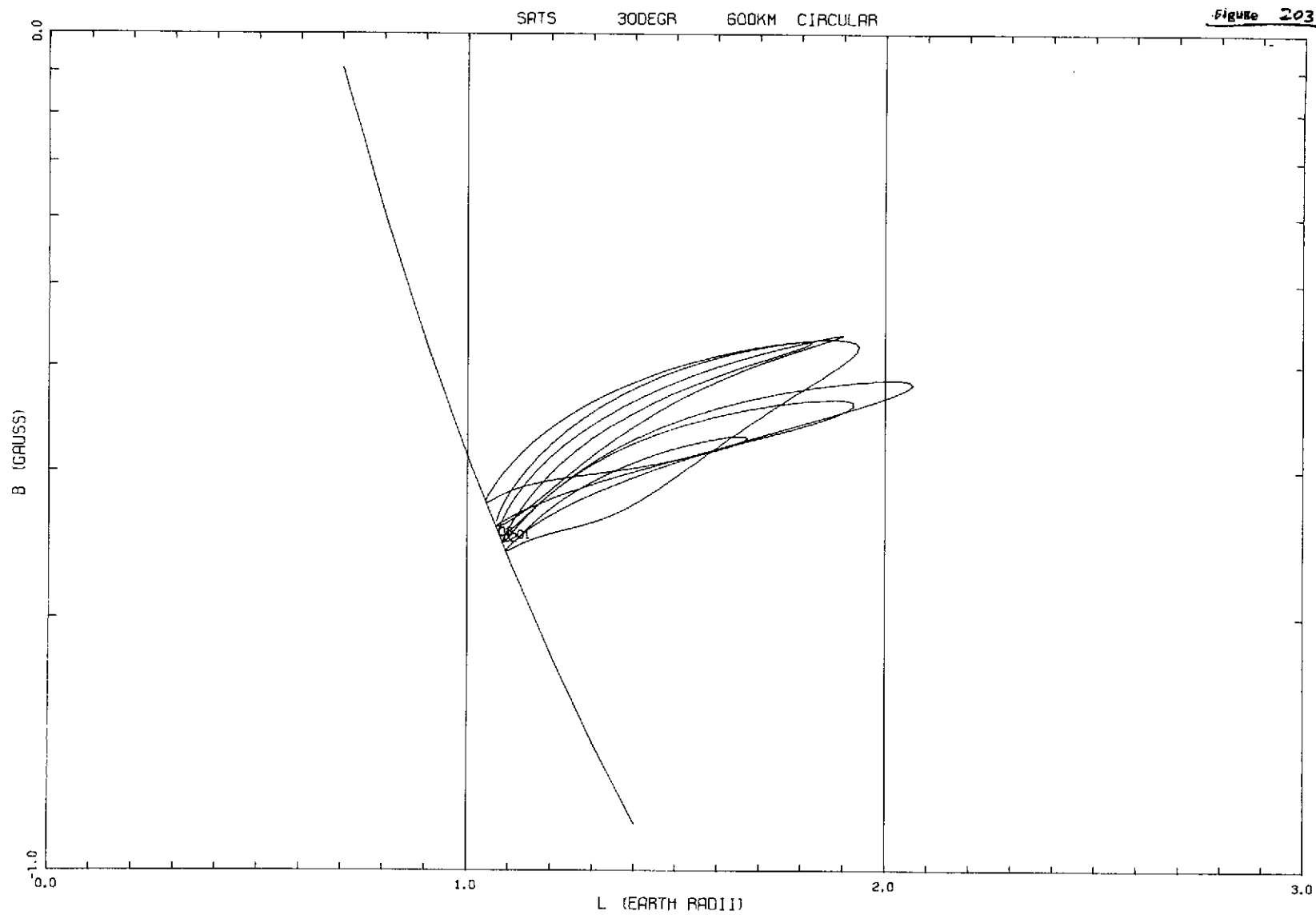
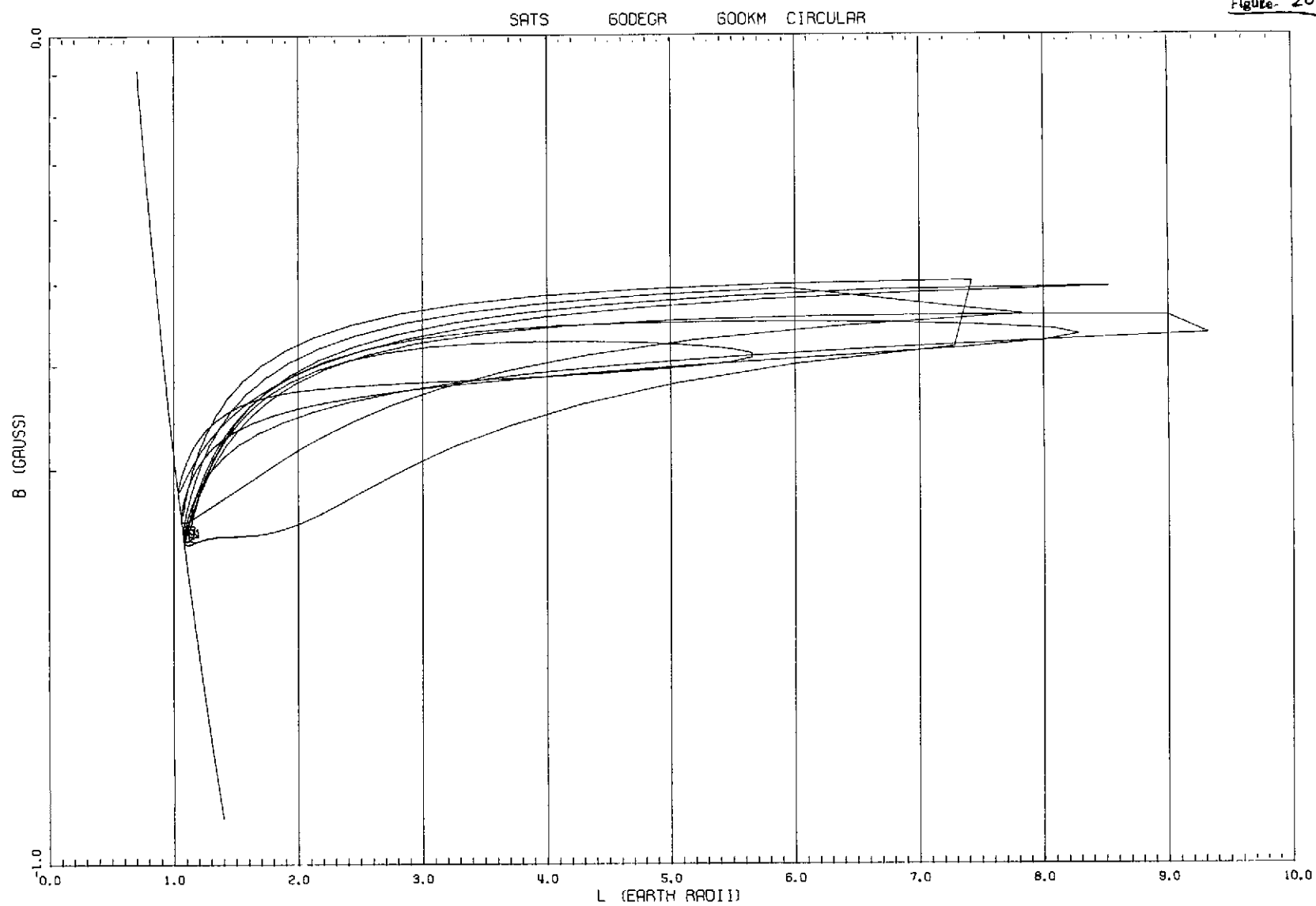
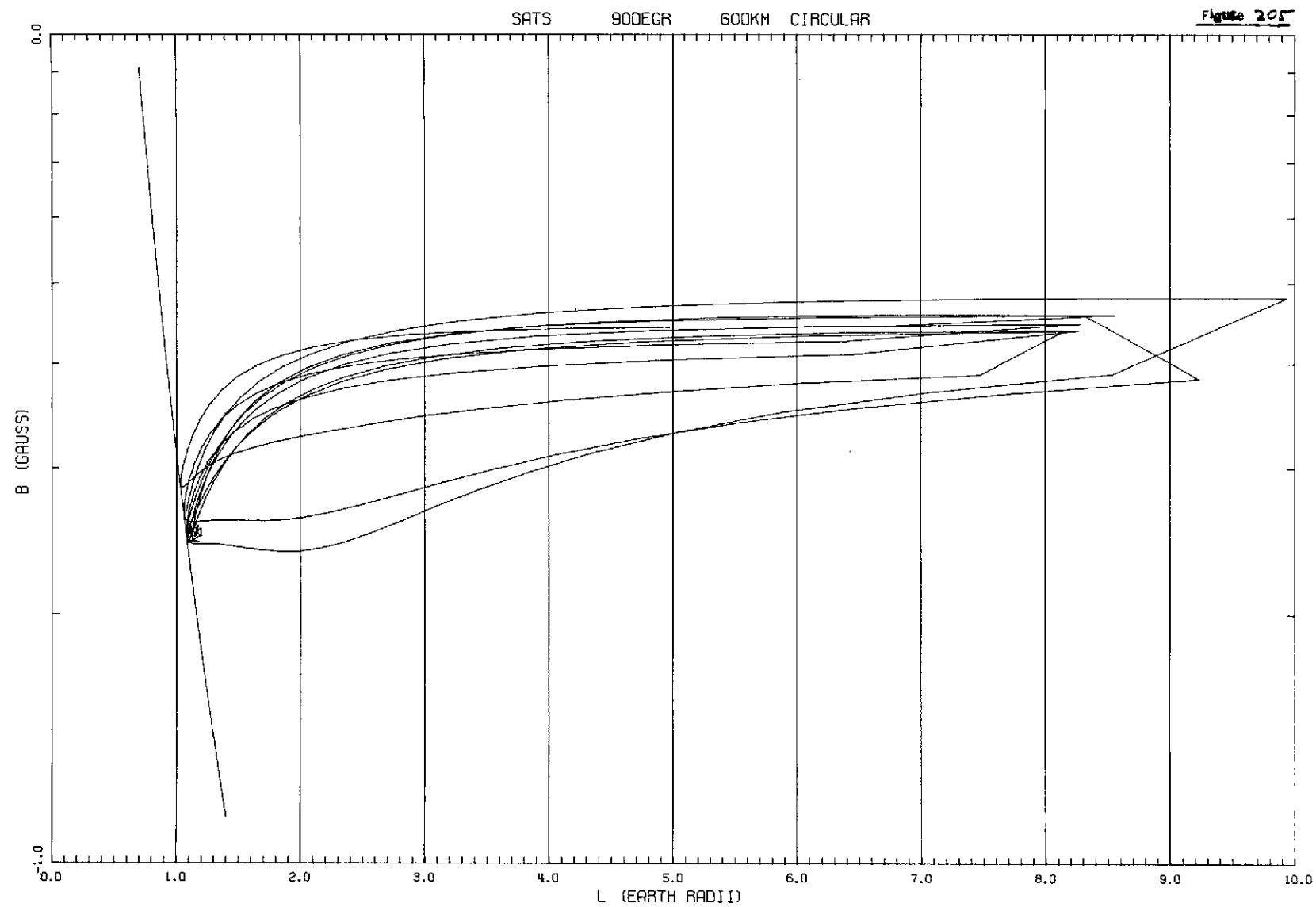
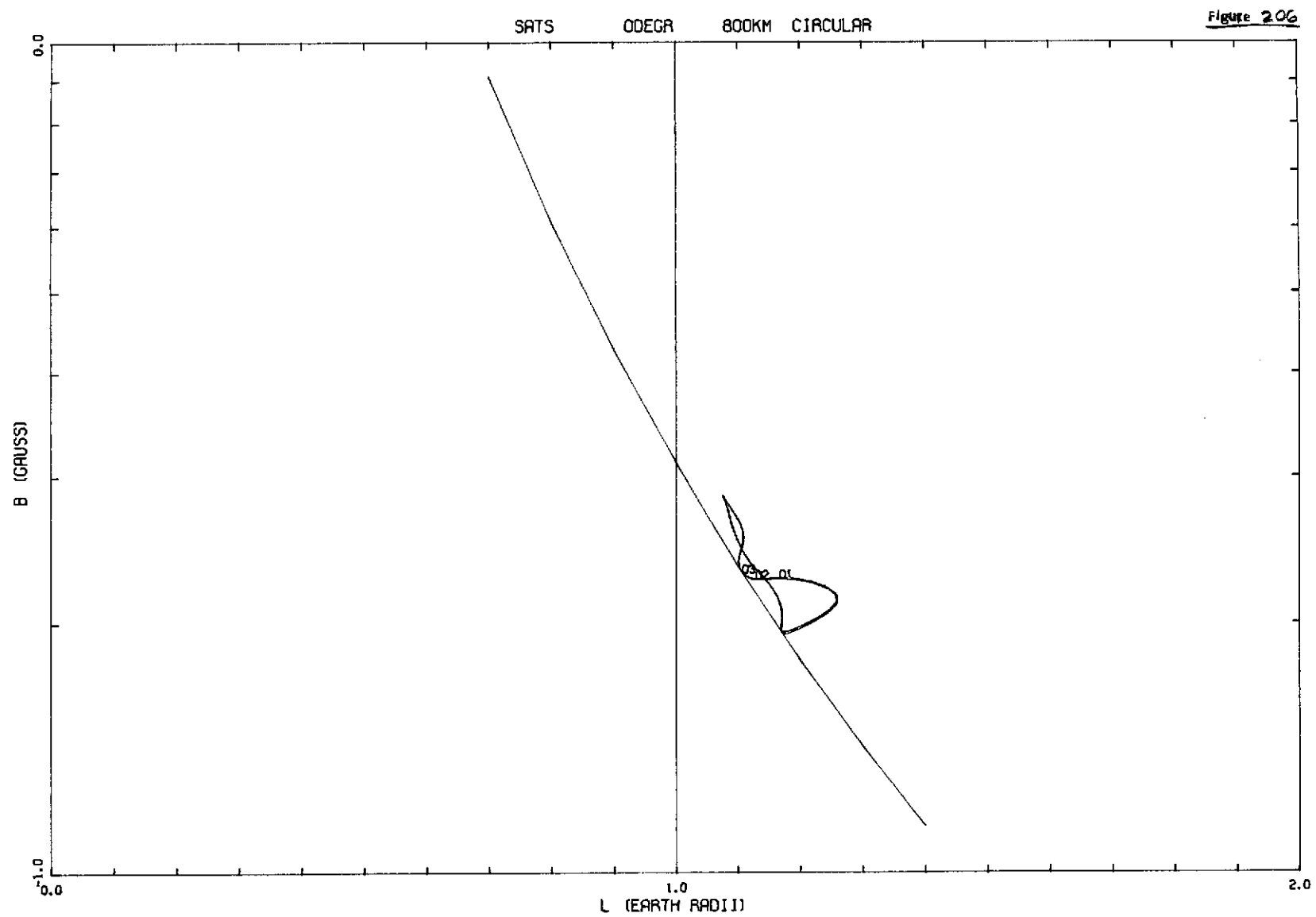


Figure- 204







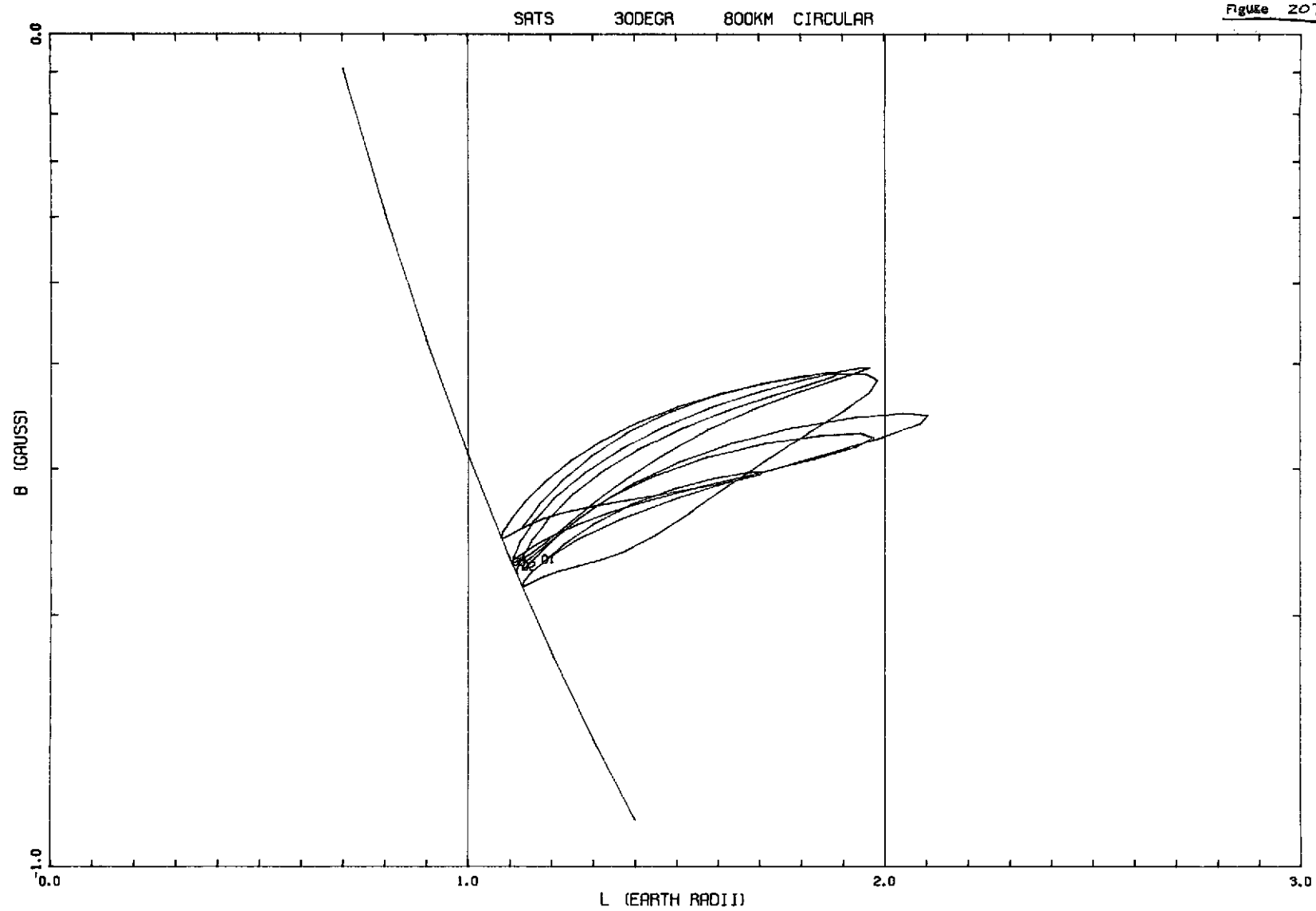
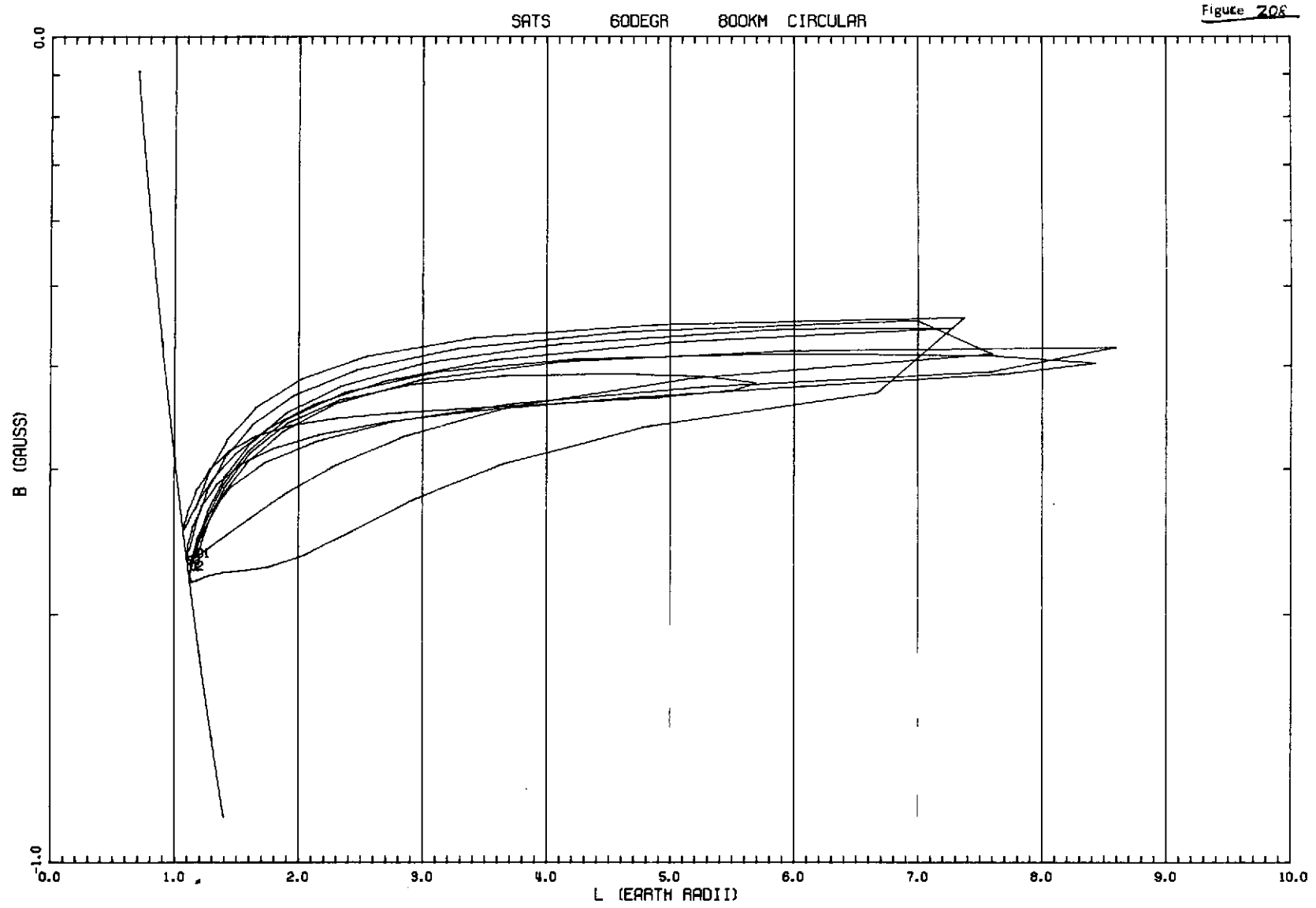
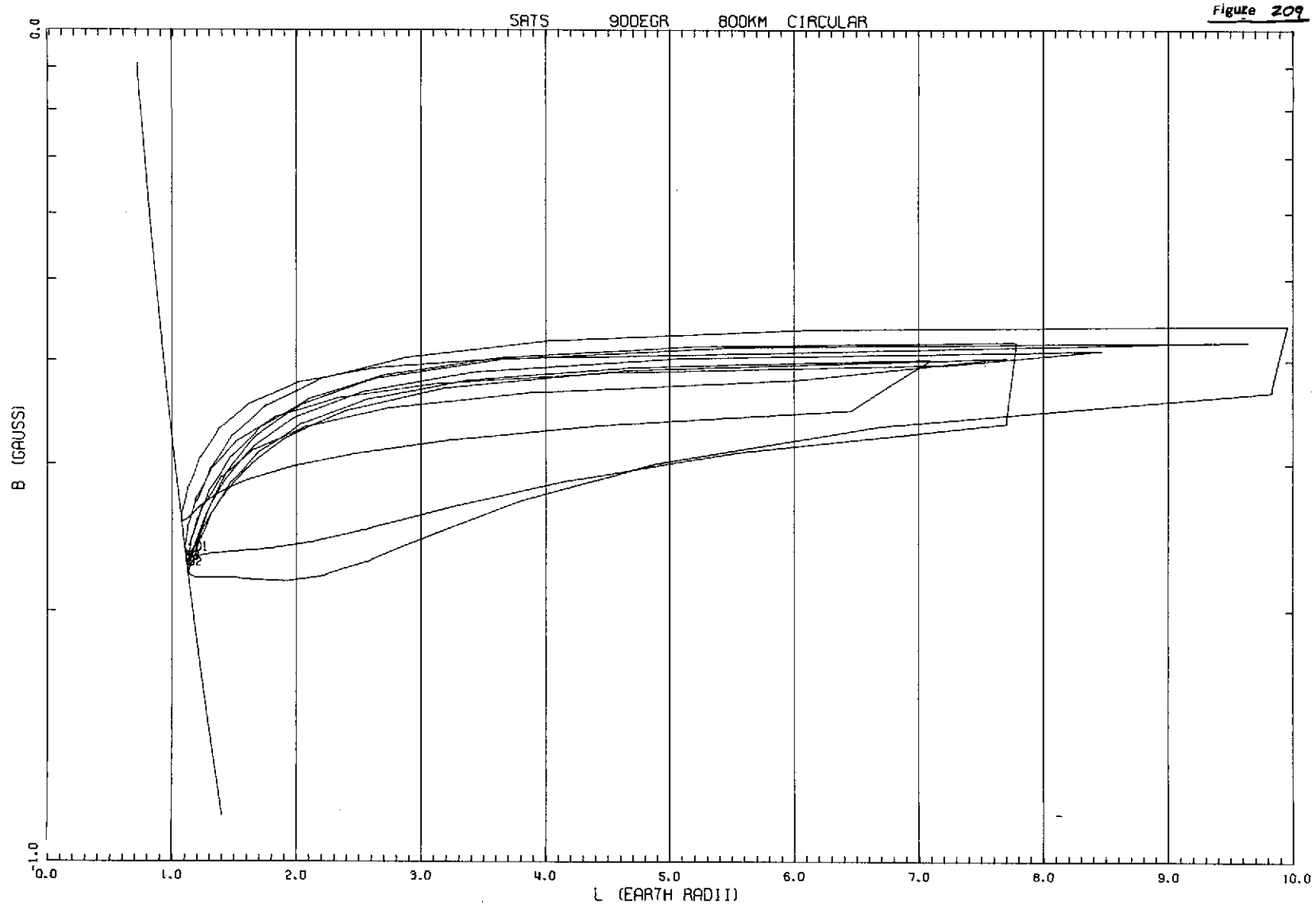


Figure 206





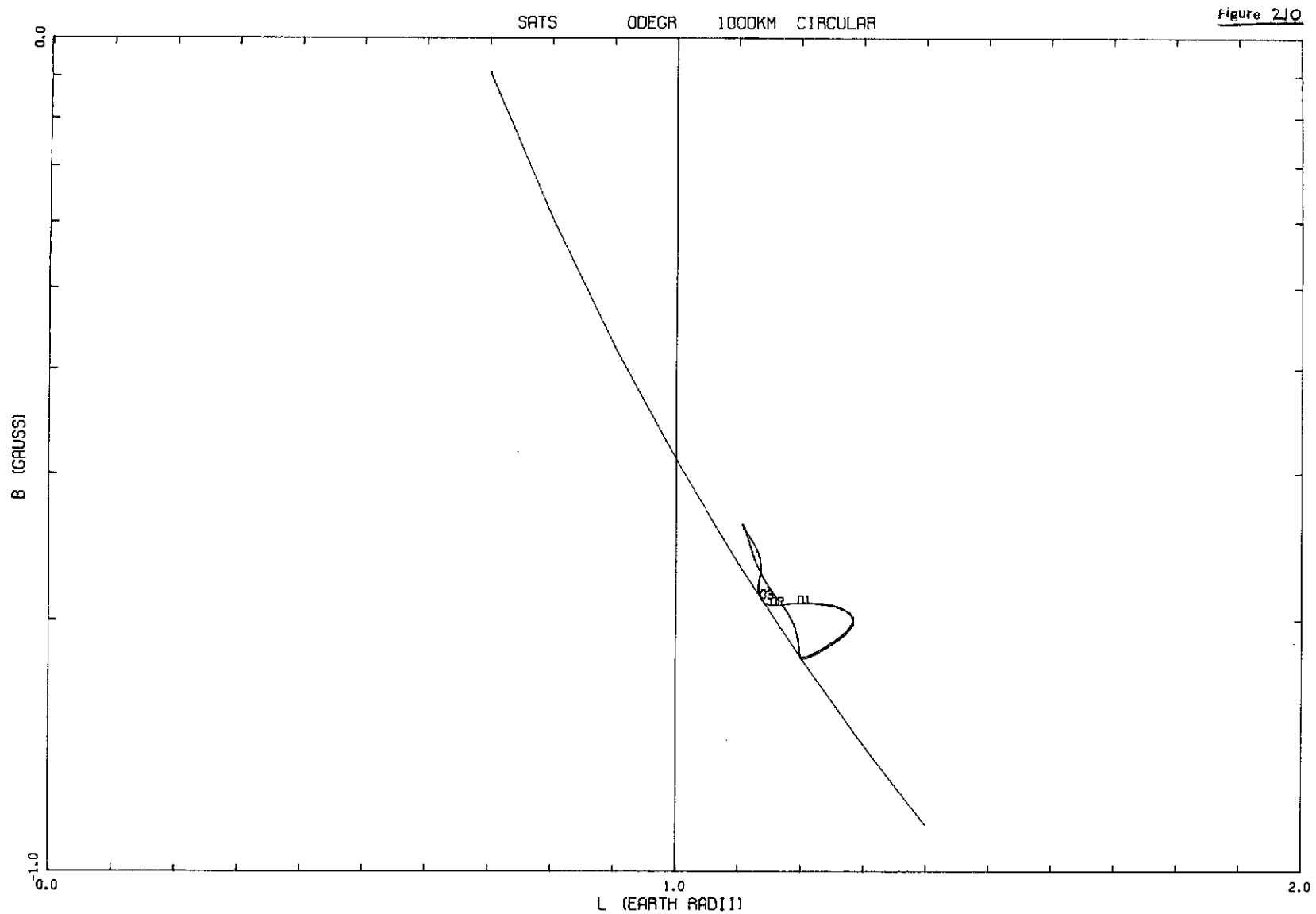
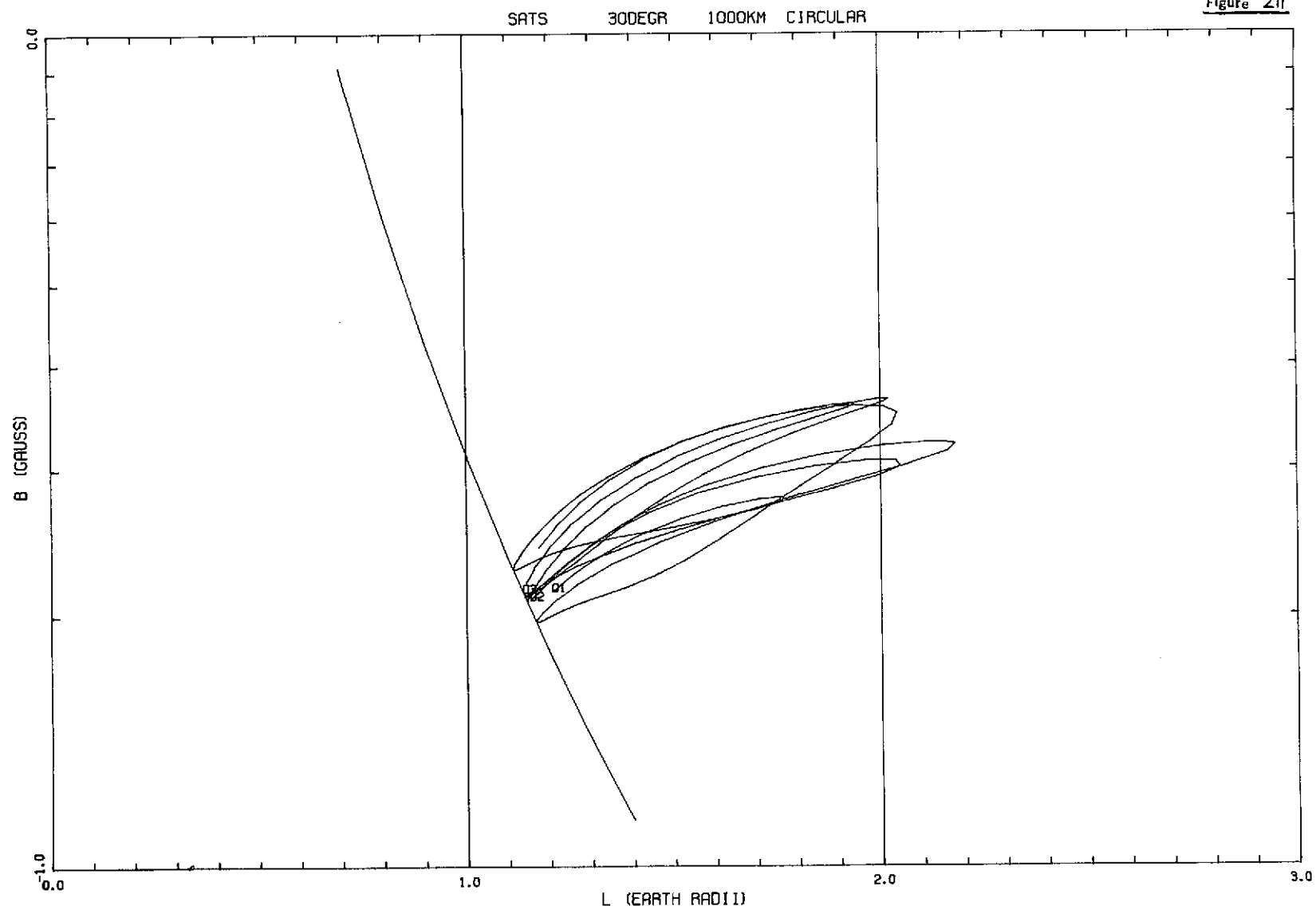


Figure 211



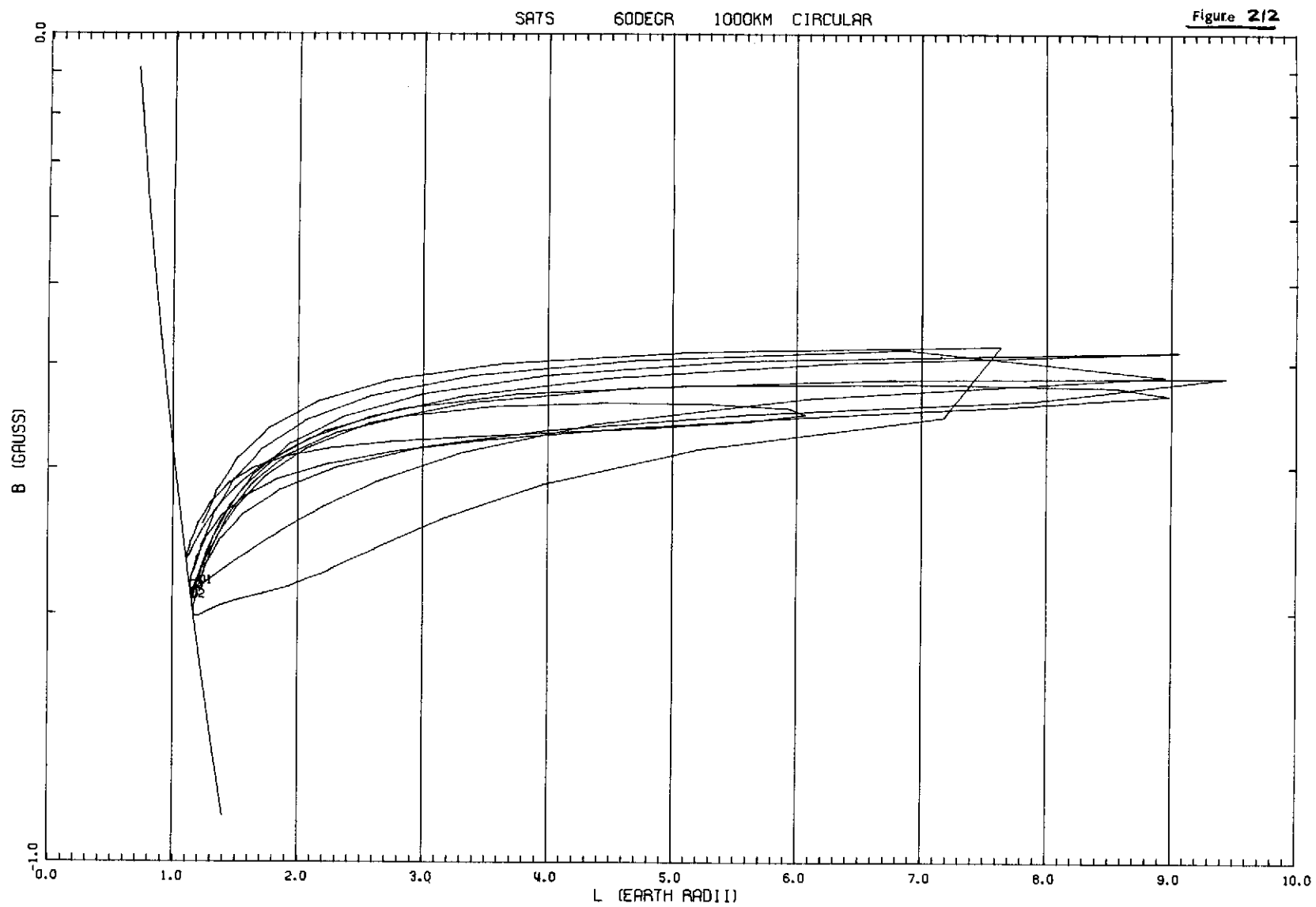


Figure 213

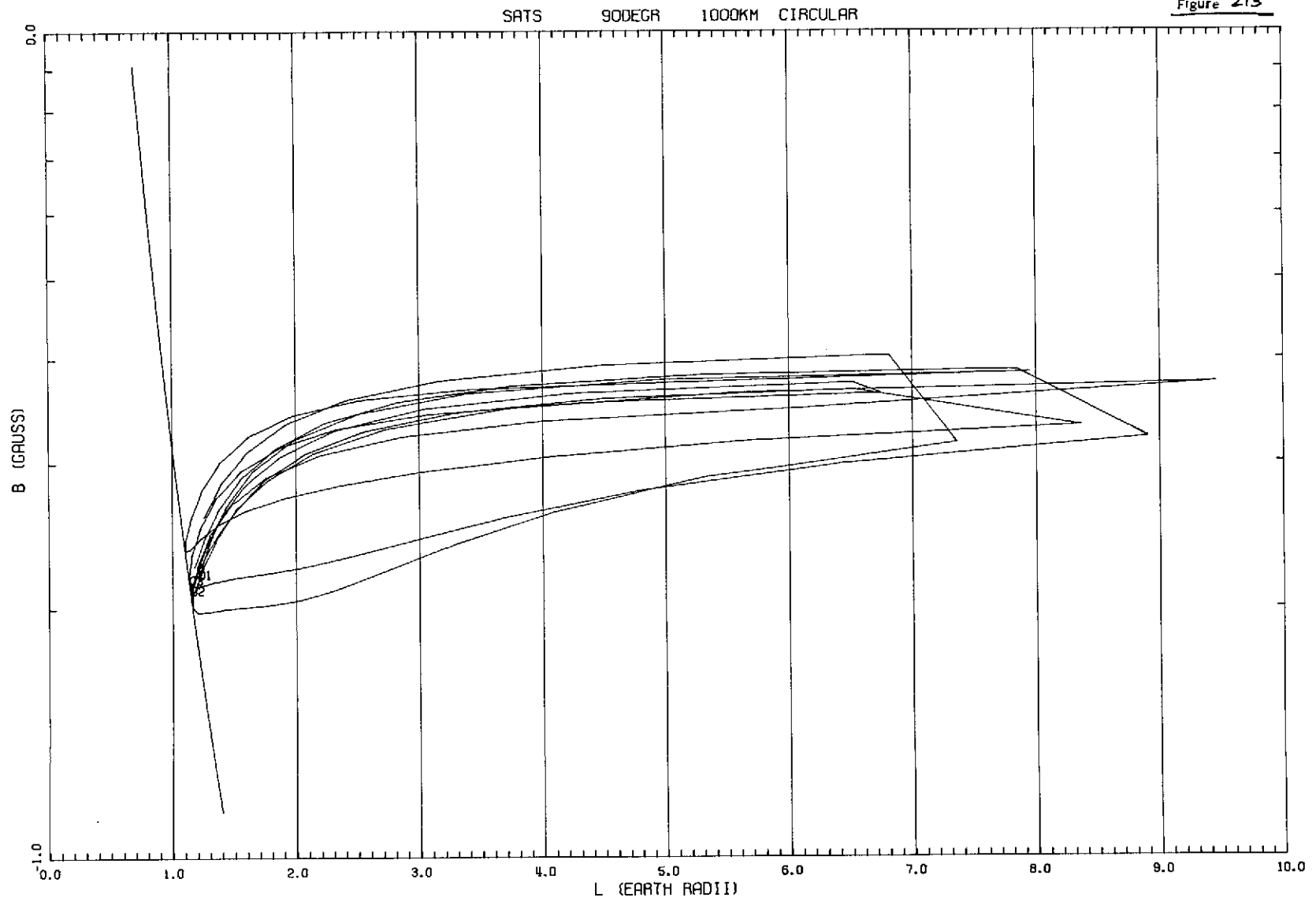


Figure 214

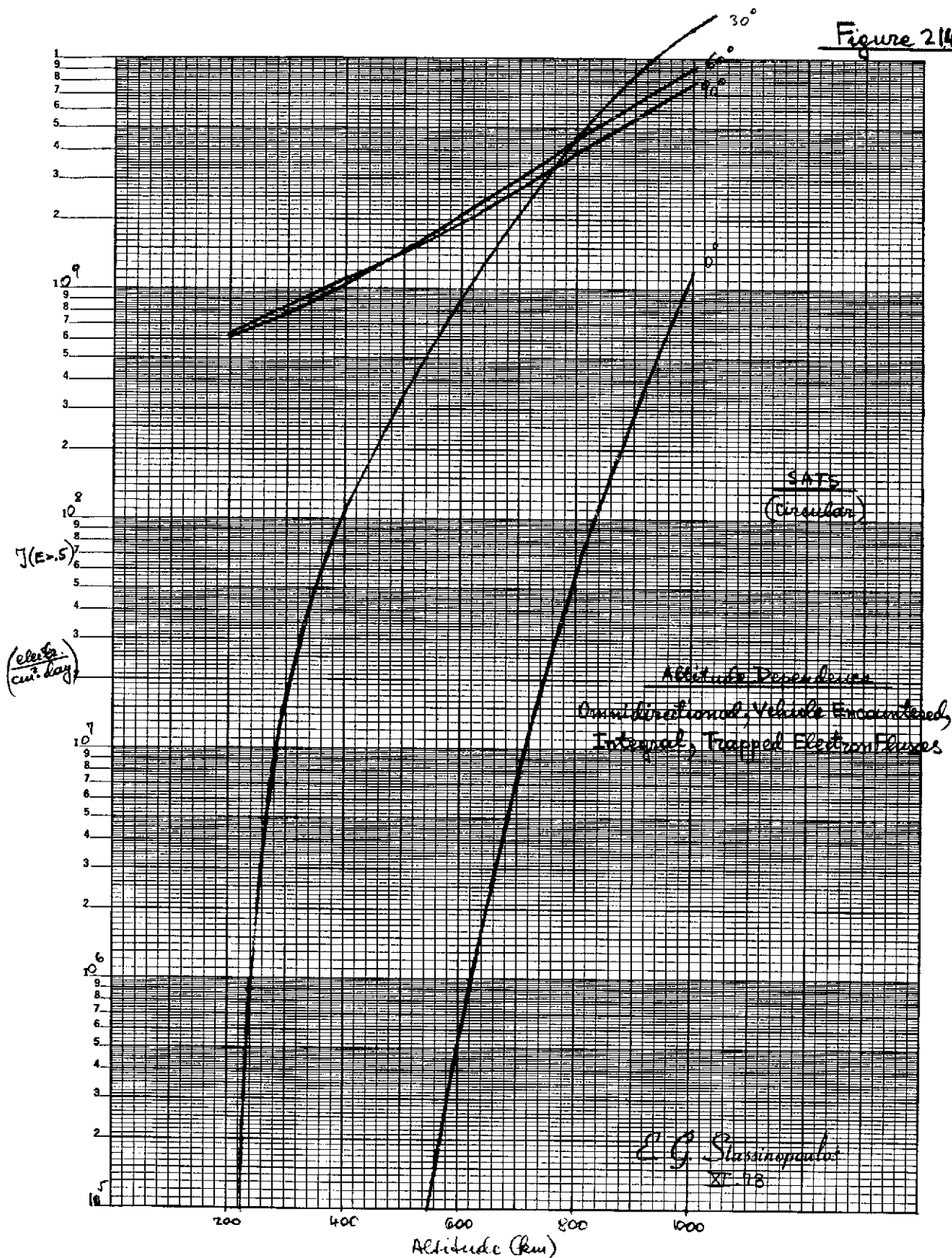


Figure 215

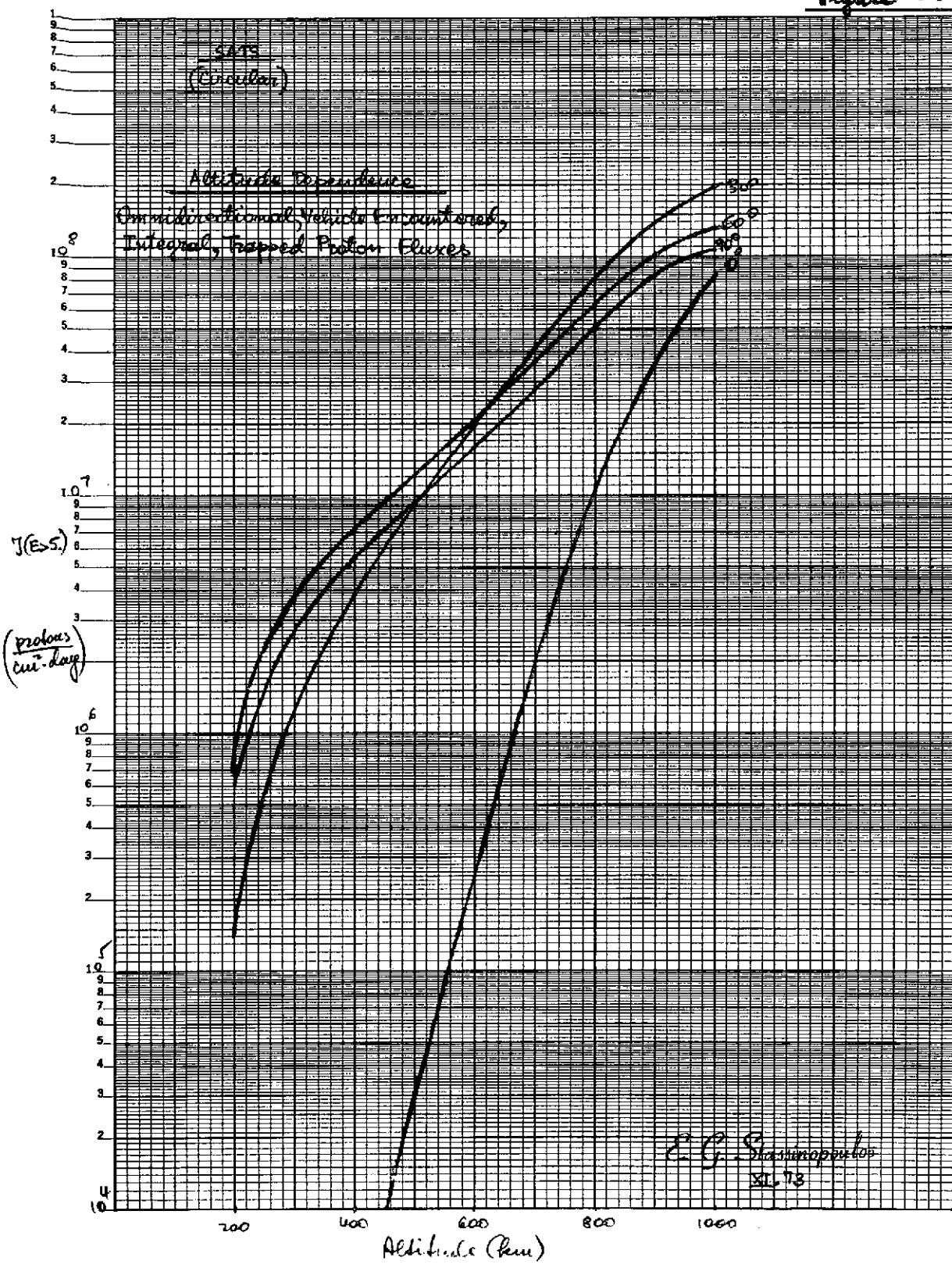


Figure 216

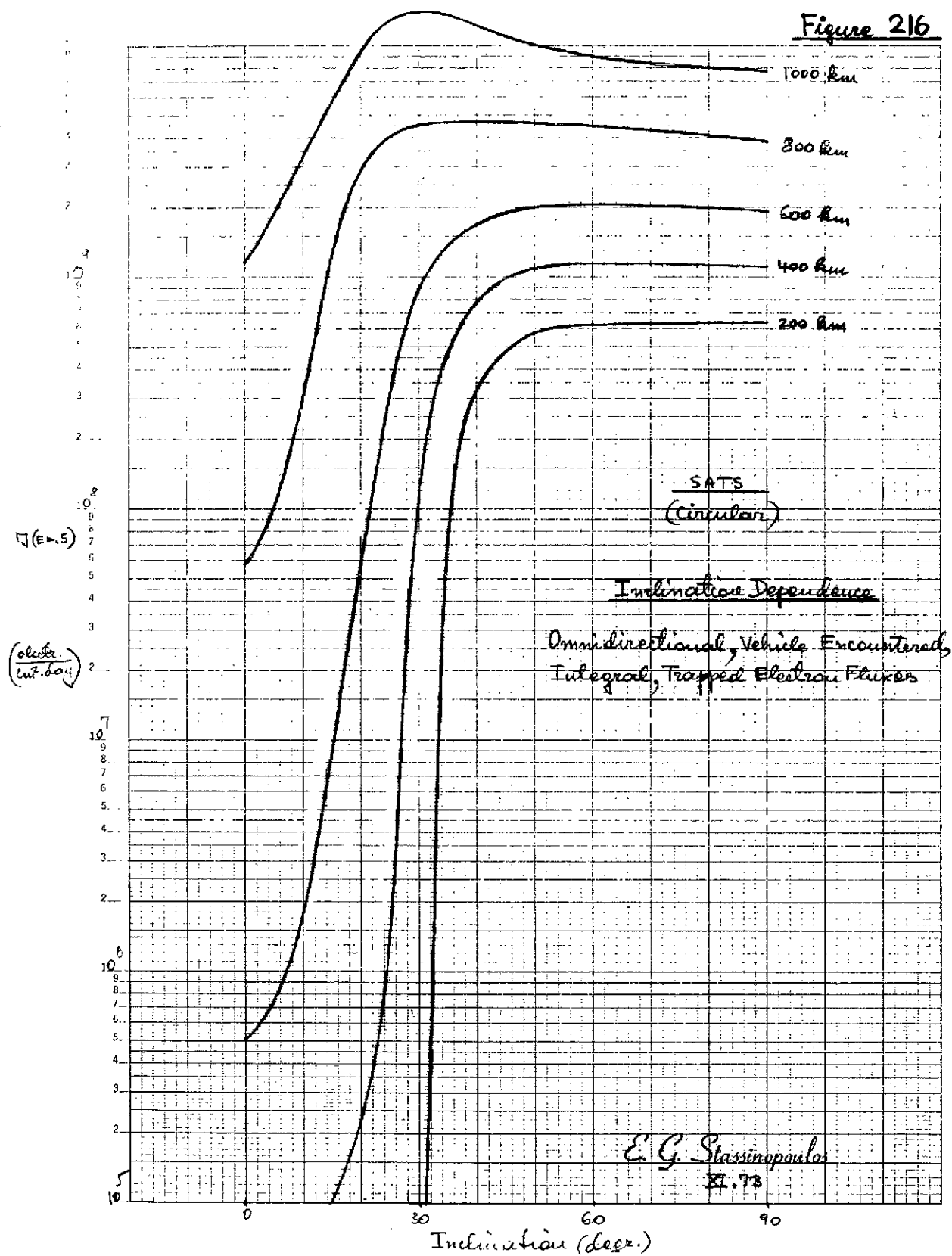


Figure 217

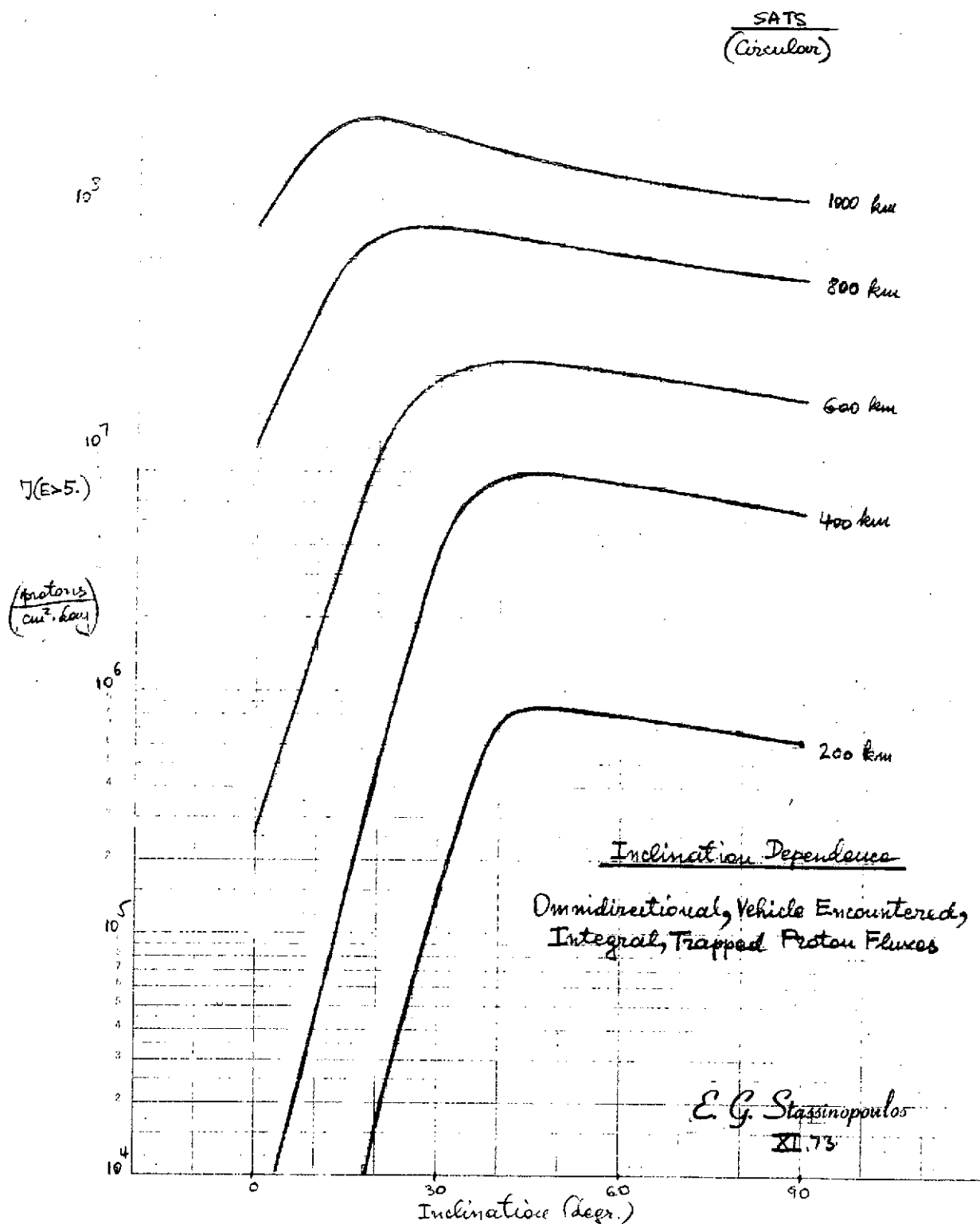


Figure 218

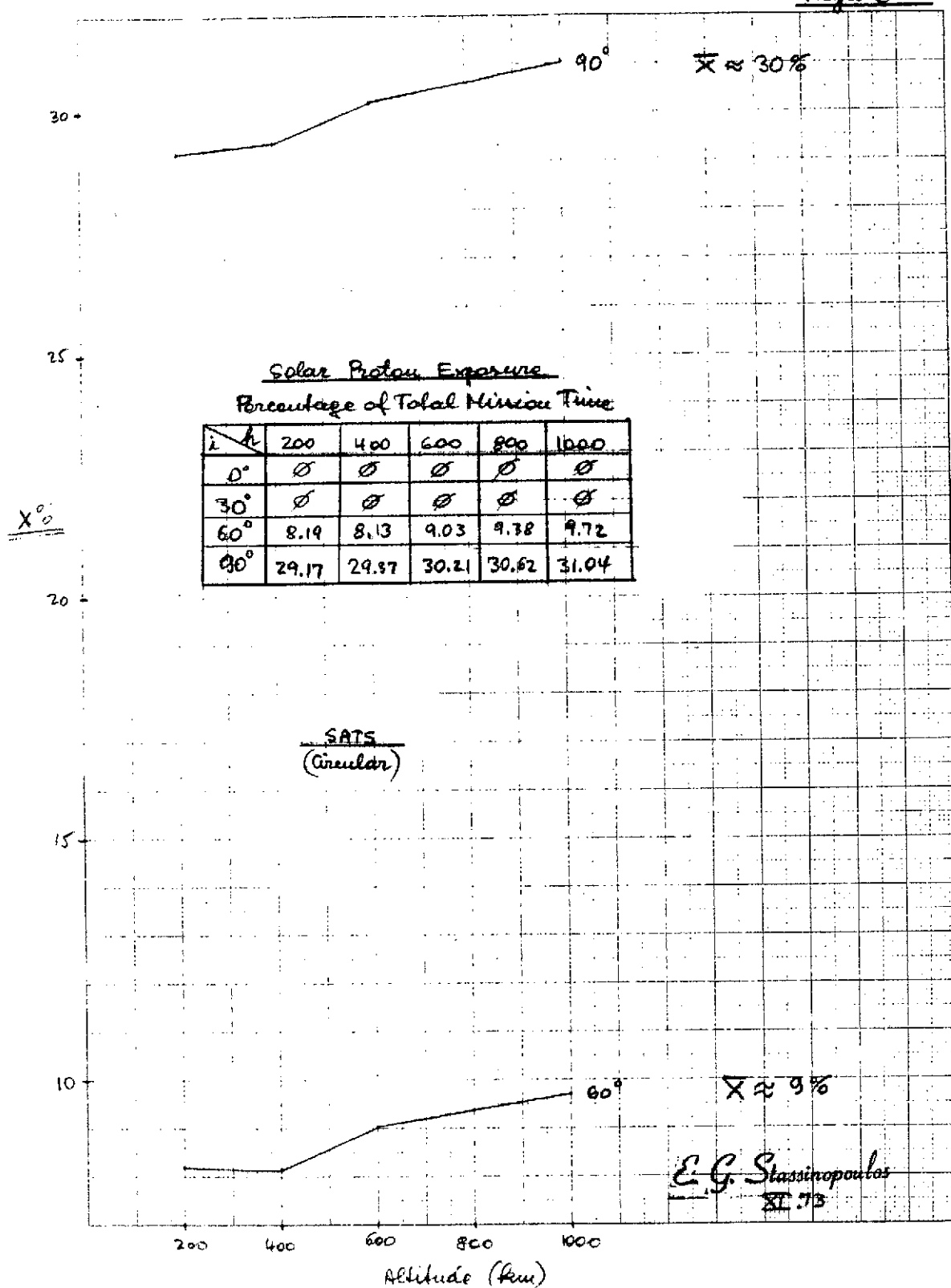


Figure 219

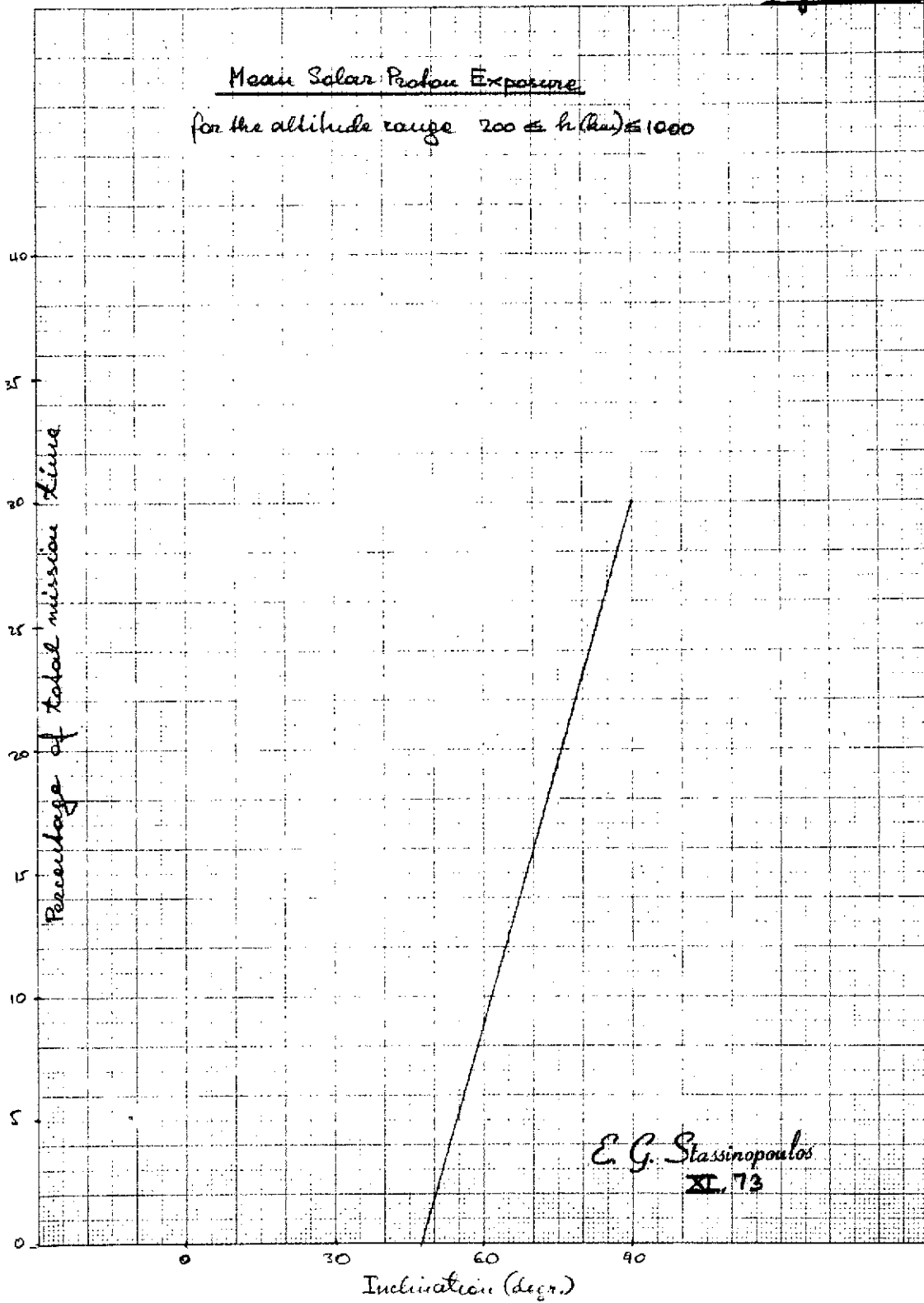


Figure 220

